

ROZENKNOP, M. F.

ROZENKNOP, M. P.

"Perfecting Equipment for Automatic Repeated Switching in Electric Transmission Lines." Min Higher Education USSR. Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov. Moscow, 1956.
(Dissertation for the Degree of Candidate in Sciences)

TECHNICAL

So: Knizhnaya Letopis', No. 17, 1956

ROZENKNOP, M.P.

621.316.545

3

2699. SWITCHING OFF THE NO-LOAD CURRENT OF A
10000 kVA TRANSFORMER BY MEANS OF THE ISOLATOR

SWITCH RLN-110. Ya. F. Kuz'min and M. P. Rozenknop.

Elekt. Stantsii, 1950, No. 10, 33-6. In Russian.

Successful switching operations were performed with this switch
at 86 kV on transformers with isolated and solidly earthed neutrals.
Tests carried out included photographing arcs, examining contacts
for burns, and recording oscillographically transient currents.

E.M.Dembinski

(B)

KUZ'MIN, Ya.F., inzhener.; ROZENKNOP, M.P., inzhener.

Use of the RLN-110 disconnecting switch to interrupt the no-load
current of a 10,000 kva transformer. Elek. sta. 27 no.10:33-35 0 '56.
(Electric switchgear) (MLRA 9:12)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620013-5

ROZENKNOP, M.P., kand.tekhn.nauk

Converting 110-220 kv. lines to operation on two phases under break-down conditions. Elek. sta. 29 no. 7:67-69 Jl '58. (MIRA 11:10)
(Electric power distribution--High tension)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620013-5"

KOSTROMIN, A.I., inzhener; ROZENKNOP, M.P., inzhener.

On alternating current drives for circuit breakers. Elektrichestvo
no.4:76 Ap '54. (MLRA 7:5)

1. Orgres MESRP. (Electric circuit breakers)

ROZENKNOP, M.P., kand.tekhn.nauk

Total electromagnetic blocking of disconnectors. Elek.sta. 32
no.6:55-59 Je '61. (MIRA 14:8)
(Electric power distribution)

BUSLENKO, Nikolay Panteleyemonovich; SHREYDER, Yuliy Anatol'yevich;
ROZENKNOP, V.D., red.; YERMAKOVA, Ye.A., tekhn. red.

[Method for statistical tests (Monte-Carlo) and use of
digital computers in its realization] Metod statistiche-
skikh ispytanii (Monte-Karlo) i ego realizatsiia na tsif-
rovyykh vychislitel'nykh mashinakh. Moskva, Gos.izd-vo fiziko-
matem. lit-ry, 1961. 226 p. (MIRA 15:2)

(Electronic digital computers) (Mathematical statistics)

BRUSLENKO, N.P.; GOLENKO, D.I.; SOBOL', I.M.; SRAGOVICH, V.G.;
SHREYDER, Yu.A.; LYUSTERNIK, L.A., red.; YANPOL'SKIY, A.R.,
red.; ROZENKNOP, V.D., red.; KRYUCHKOVA, V.N., tekhn. red.

[The method of statistical tests; Monte Carlo method]Metod
statisticheskikh ispytanii; metod Monte-Karlo. Pod red. IU.A.
Shreidera. Moskva, Fizmatgiz, 1962. 331 p. (MIRA 15:10)
(Mathematical statistics)

MEL'NIKOVA, F.M., inzh.; POZNYAK, E.L., kand.tekhn.nauk; RAYKHLINA, B.B.,
inzh.; ROZENKNOP, V.D., inzh.

Use of automatic digital computers for determining the critical
angular velocity of rotors with multiple supports in large
turbogenerator units. Vest.elektroprom. 32 no.2:1-8 F '61.

(MIRA 15:5)

(Turbogenerators) (Electronic digital computers)

BARSOV, Aleksey Sergeyevich; ROZENKNOP, V.D., red.; BRUDNO, K.F.,
tekhn.red.

[What is linear programming?] Chto takoe lineinoe programmirovaniye.
Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 103 p. (Populiarnye
lektssi po matematike, no.33). (MIRA 13:3)
(Programming (Electronic computers))

KAGAN, Boris Moiseyevich; TER-MIKAELEV, Teodor Mikhaylovich;
ROZENKNOP, V.D.; TKACH, V.F.

[Solution of engineering problems using digital computers]
Reshenie inzhenernykh zadach na tsifrovyykh vychislitel'-
nykh mashinakh. Izd.2., sovershenno perer. Moskva, Izd-vo
"Energiia," 1964. 591 p. (MIRA 17:5)

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9,1000

S/110/61/000/002/001/009
E035/E517

AUTHORS: Mel'nikova, F.M., Engineer, Poznyak, E.L., Candidate of Technical Sciences, Raykhлина, B.B., Engineer and Rozenknop, V.D., Engineer

TITLE: The Calculation of Critical Speeds of Large Turbo-Alternators with the Aid of Digital Computers

PERIODICAL: Vestnik elektropromyshlennosti, 1961, No.2, pp.1-8

TEXT: Two difficulties arise in the determination of critical speeds of large machines; firstly, that the values of the various constants to be used in the computation are not always accurately known; and, secondly, that for shafts with many rotating masses and bearings, the numerical computations become exceedingly lengthy. The authors have solved the second problem by using a computer. For large machines the analysis should take into account the 'elasticity' of the oil films in the bearings as well as the masses of the bearings and the elastic constants of their anchorages. These elastic constants are usually different in the horizontal and vertical directions. On the other hand, the analysis can assume that the shaft is everywhere truly circular, and may neglect forces along the shaft, and gyroscopic effects. The analysis depends on

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The Calculation of Critical Speeds

finding two modes of oscillation of the stationary shaft in two independent directions (corresponding to the horizontal and vertical elastic constants of the bearings); then the critical speeds of the shaft will be equal to the frequencies of these two modes. The partial differential equation for a shaft in oscillation is:

$$\mu(x) \frac{\partial^2 y(x,t)}{\partial t^2} + \frac{\partial^2}{\partial x^2} \left[EI(x) \frac{\partial^2 y(x,t)}{\partial x^2} \right] = 0, \quad (2)$$

where x is the distance along the shaft, $\mu(x)$ is the mass/unit length of the shaft at point x , $EI(x)$ is the stiffness at point x , $y(x,t)$ is the deflection of the shaft at point x and time t .

The general solution of Eq.(2) is of the form:

$$y(x,t) = y(x) \cos \Omega t \quad (3)$$

where Ω is a critical frequency of speed. With this general solution we can derive an ordinary differential equation:

$$\frac{d^2}{dx^2} \left[EI(x) \frac{d^2 y(x)}{dx^2} \right] - \mu \Omega^2 y(x) = 0. \quad (4)$$

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The Calculation of Critical Speeds... E035/E517

and, with the aid of the differential relations

$$\frac{dM}{dx} = V; \quad \frac{dy}{dx} = \theta. \quad (5)$$

where M is the bending moment; V is the shear force, θ is the slope of the shaft, we can express Eq.(4) as two separate second-order differential equations:

$$\frac{d^2y}{dx^2} = \frac{d\theta}{dx} = \frac{M}{EI} \quad (6)$$

and

$$\frac{d^2M}{dx^2} = \frac{dV}{dx} = \mu \Omega^2 y. \quad (7)$$

The boundary conditions for the solution of these two equations can be expressed by considering the bearings at the end of the shaft; there are initially two unknowns at each end. From many possible methods of solution, the following was chosen: Eqs. (6) and (7) are

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The Calculation of Critical Speeds... E035/E517

approximated by finite difference expressions. A value of frequency ω which is within the range being investigated, but is not, in general, equal to a critical frequency, is selected, and the equations are solved twice. For the first solution, one of the unknown boundary conditions at the left hand end of the shaft is given an arbitrary value of 1 and the other is made equal to 0. For the second solution, these boundary conditions are reversed. A linear combination of these two solutions is examined to see whether it satisfies the boundary conditions at the right hand end of the shaft. This will not, in general, be the case; for the boundary conditions will only be satisfied if $\omega = \Omega$. In general, therefore, a function $\Phi(\omega)$, which has the properties that

$$\Phi(\Omega) = 0, \text{ and } \Phi(\Omega + \delta\Omega) \cdot \Phi(\Omega - \delta\Omega) < 0$$

is calculated. Starting at the low end of the frequencies to be investigated, the equations are solved and Φ calculated for steadily increasing values of ω . The presence of a critical speed in the neighbourhood of the current value of ω is detected by a change in the sign of $\Phi(\omega)$. The exact value of the critical frequency can
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The Calculation of Critical Speeds.... E035/E517

then be located by searching between the last two values of ω with successively smaller increments or decrements in ω . A root is found by one of two criteria: a) that $|\Delta\omega| < \epsilon$, or b) that $|\Phi(\omega)| < \epsilon_1$. In the actual example solved, the shaft is represented by a finite approximation consisting of a number of masses connected by a flexible but mass-less shaft. Using recurrence relations for variables such as the shear force and bending moment at the position of the i -th mass in terms of these variables at the $(i-1)$ th mass, and the constants associated with the $(i-1)$ th mass, the finite difference equations can be solved: for example, the recurrence relation for the shear force at the i -th mass is:

$$v_i = v_{i-1} + m_{i-1} y_{i-1} \omega^2 \quad (11)$$

where m_i is the mass of the i -th mass, and y_i is the deflection of the shaft at the i -th mass. The recurrence relationships take a slightly different form at the positions of the bearings. Whenever a value of Ω is determined by this system, a calculation of the actual deflected form of the shaft is made. The critical speeds of a large turbo-generator shaft about 29 m long, comprising

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a 3-stage turbine and an alternator rotor, and supported on seven bearings, were computed on a "STRELA" (СТРЕЛА) computer. The shaft was considered to consist of 122 masses, and the finite difference equations were solved in a corresponding number of steps. The flow chart for the calculation is shown in Fig.3. In the range of speeds investigated, 0 to 3800 r.p.m., the shaft was found to have 5 critical speeds for vertical oscillation, and 6 for horizontal oscillation. One of the vertical critical speeds (2850 r.p.m.) was quite close to the running speed of the shaft (3000 r.p.m.). Two of the critical speeds, including this one, were mainly due to oscillation of the rotor, and not the turbines. A separate calculation involving only the rotor showed that its own critical speeds were little affected by the presence of the turbine. The entire calculation took only 10 to 15 minutes. There are 4 figures, 2 tables and 7 references: 5 Soviet and 2 non-Soviet.

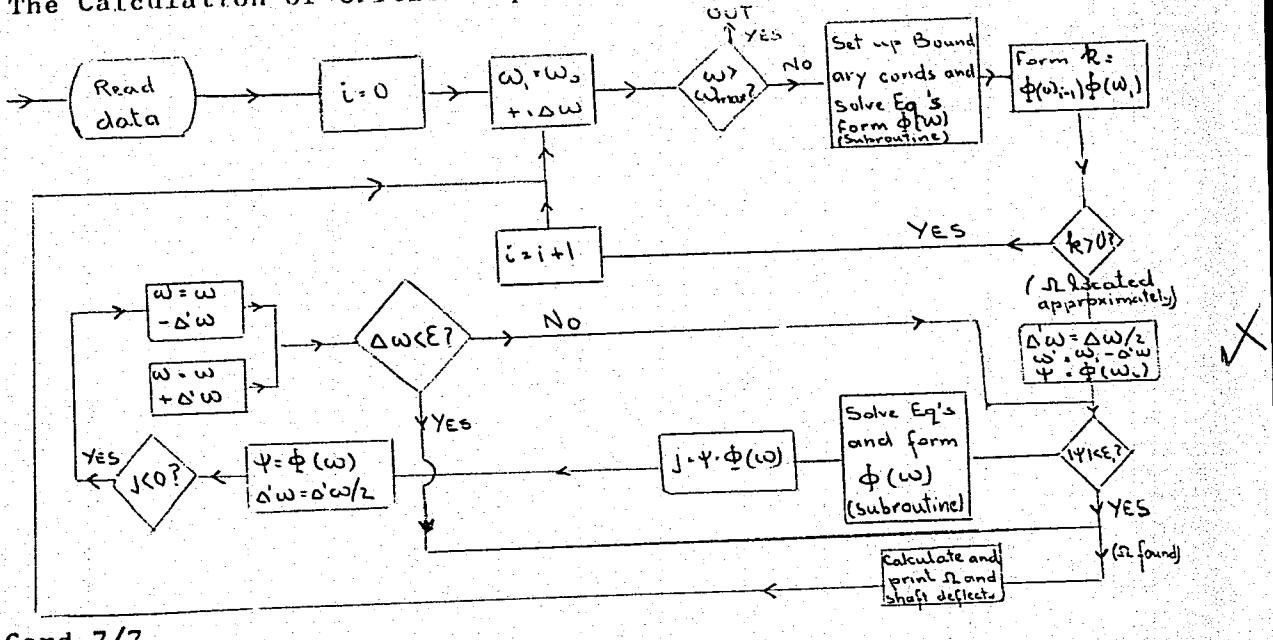
SUBMITTED: May 12, 1960

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The Calculation of Critical Speeds... E035/E517

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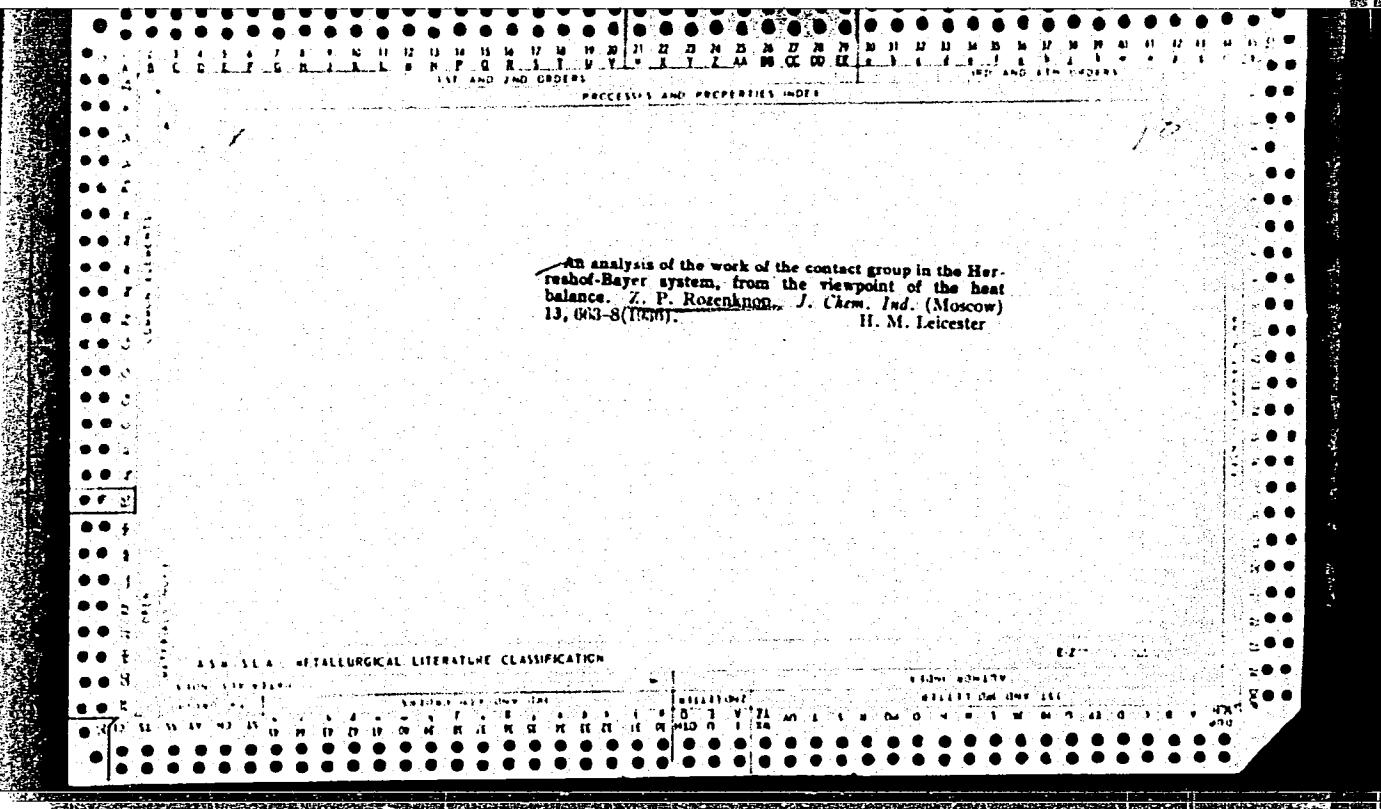
POLOZHIY, Georgiy Nikolayevich; PAKHAREVA, Nadezhda Alekseyevna; STEPANENKO,
Ivan Zakharovich; BONDARENKO, Pavel Stepanovich; VELIKOIVANEKO,
Ivan Maksimovich; ROZENKOP, V.D., red.; KRYUCHKOVA, V.N., tekhn.red.

[Mathematics] Matematicheskii praktikum. Pod red. G.N.Polozhego.
Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 512 p.
(MIRA 14:1)

(Mathematics)

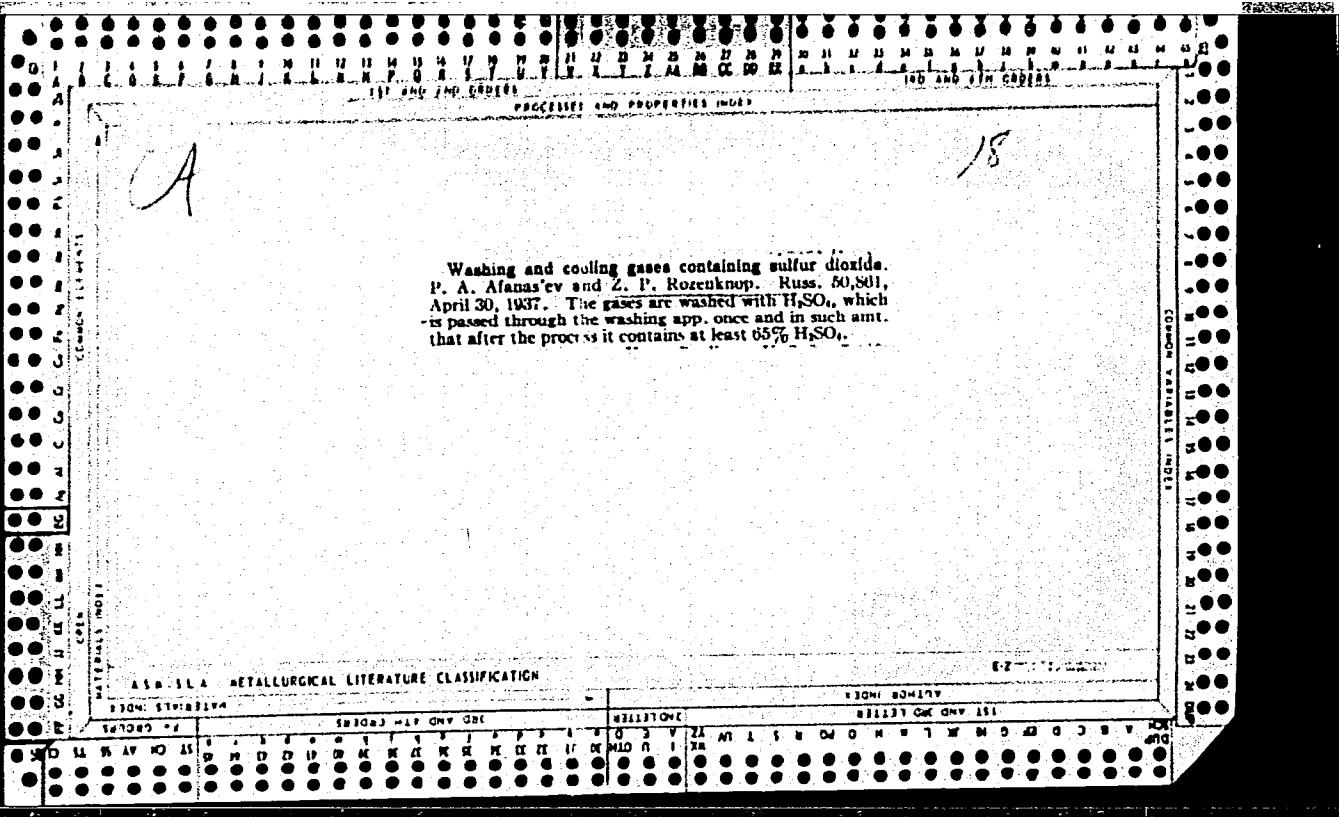
"APPROVED FOR RELEASE: 07/13/2001

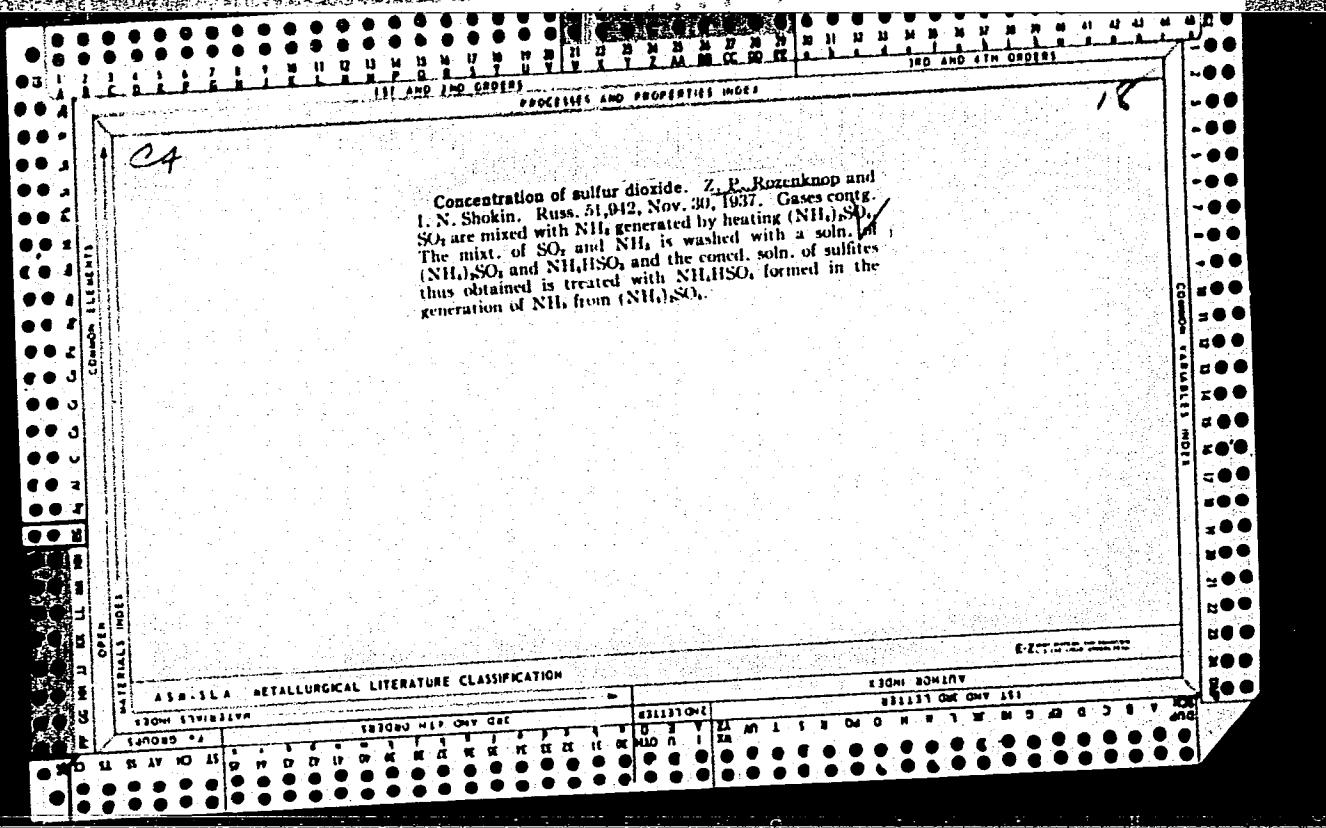
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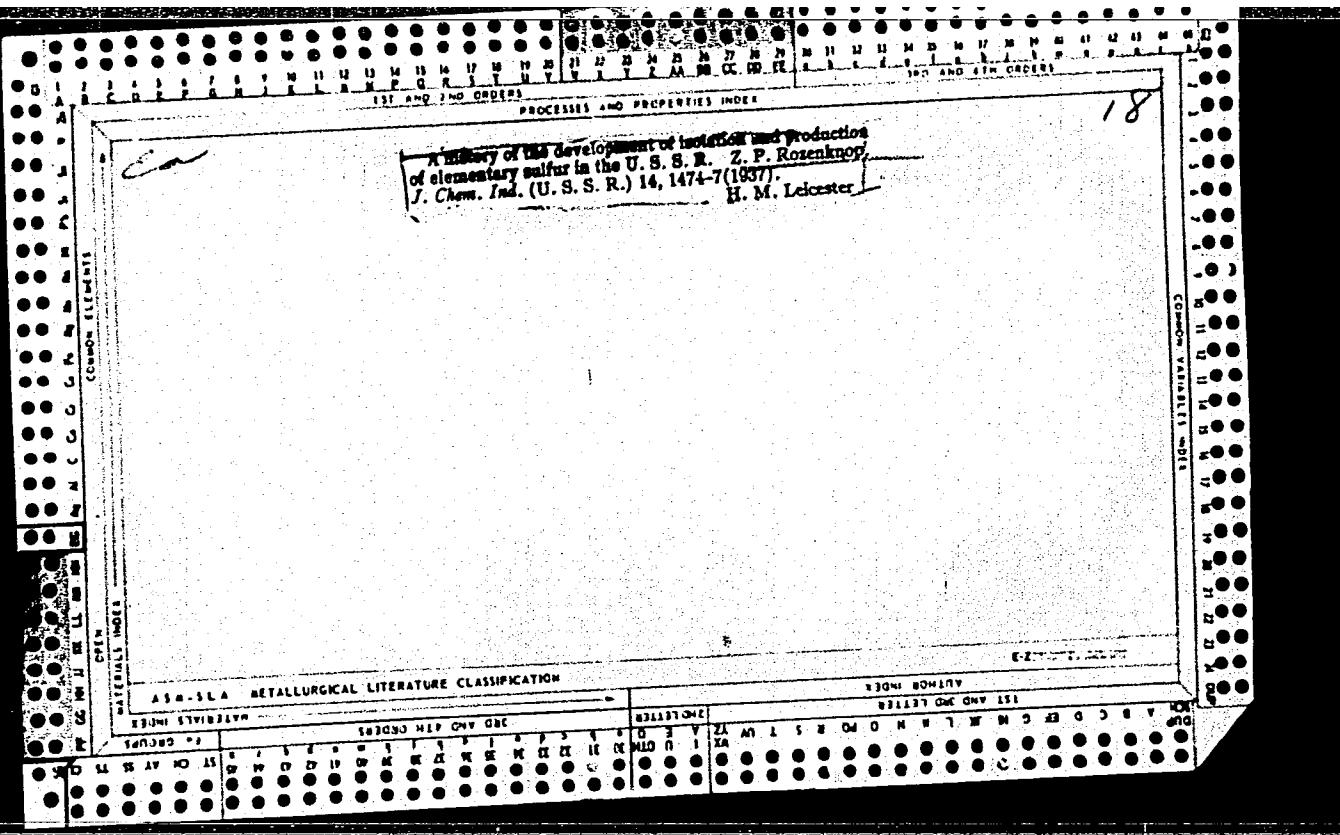


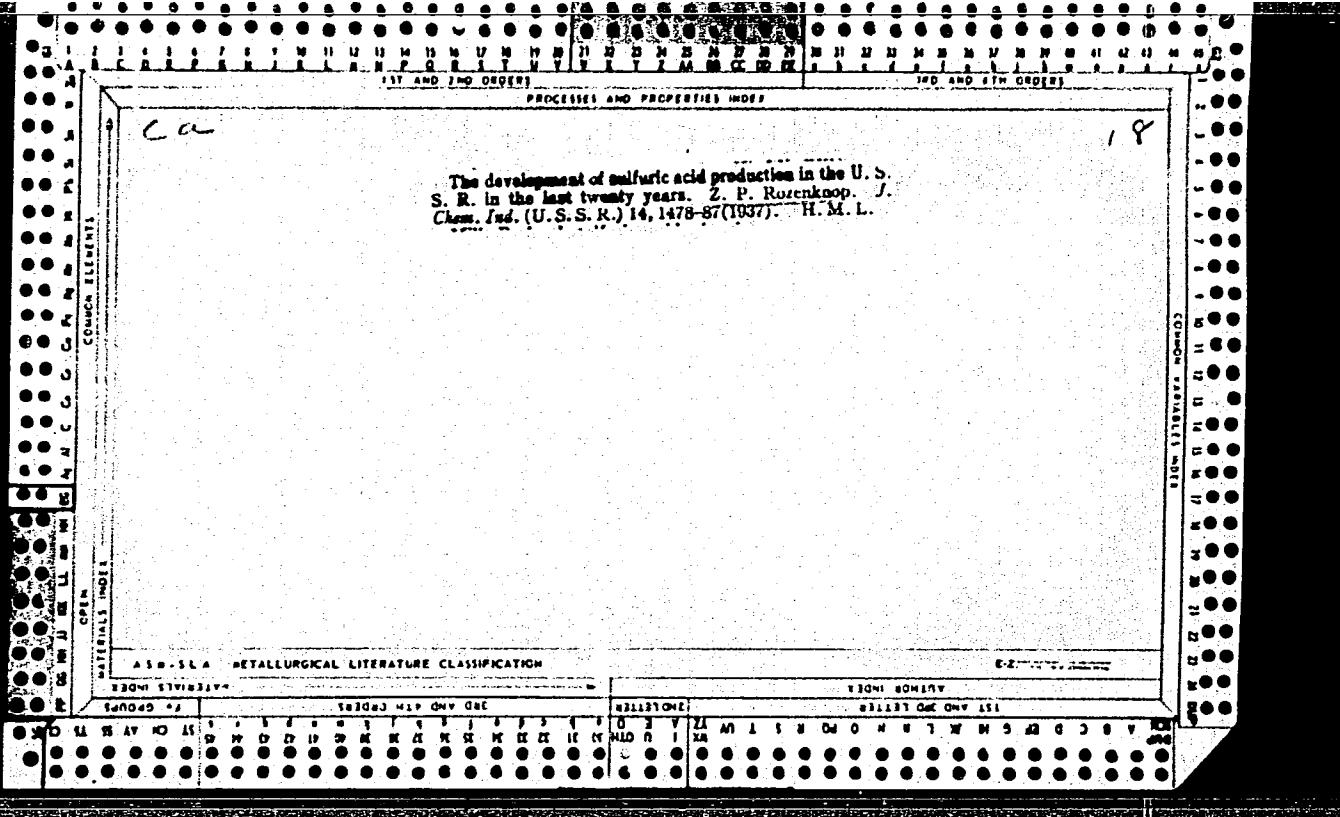
APPROVED FOR RELEASE: 07/13/2001

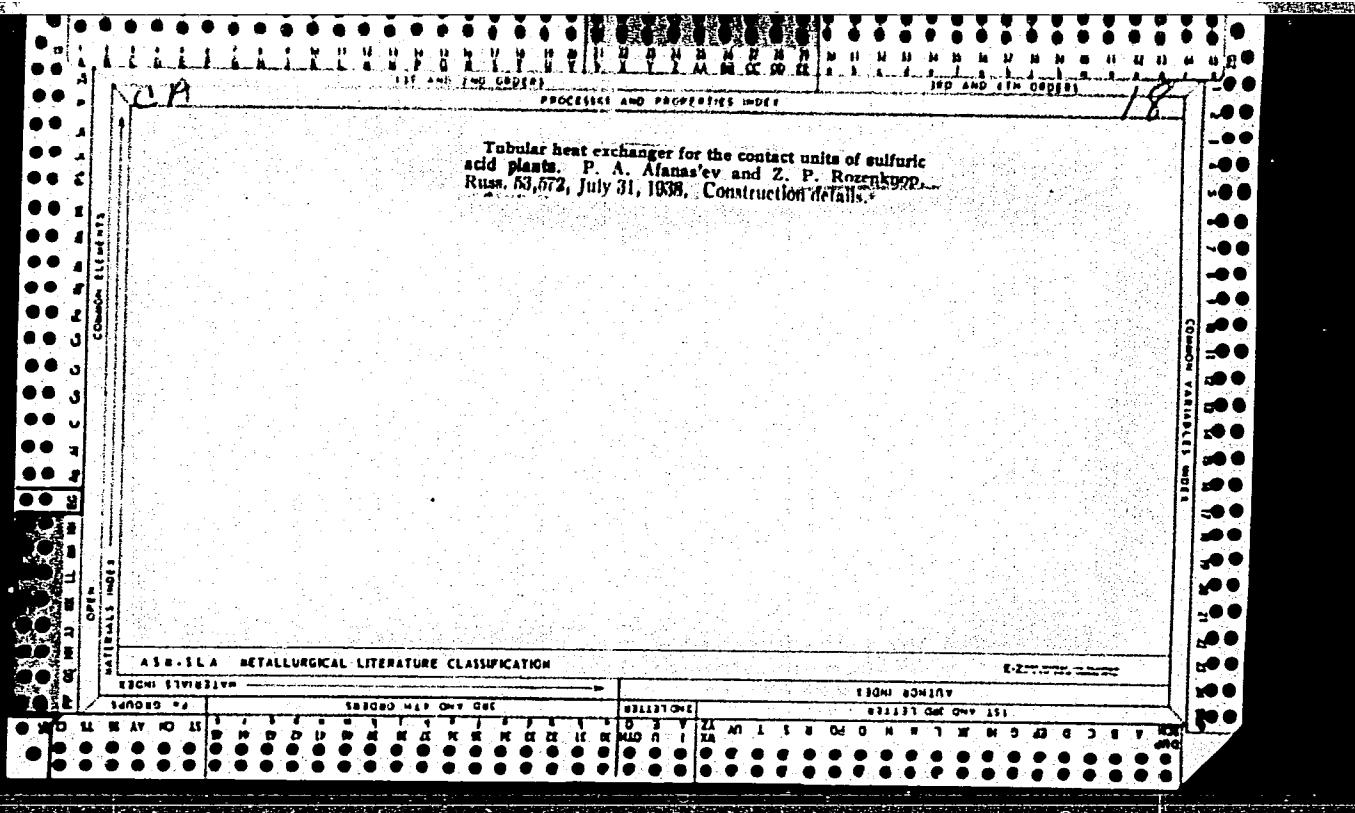
CIA-RDP86-00513R001445620013-5"

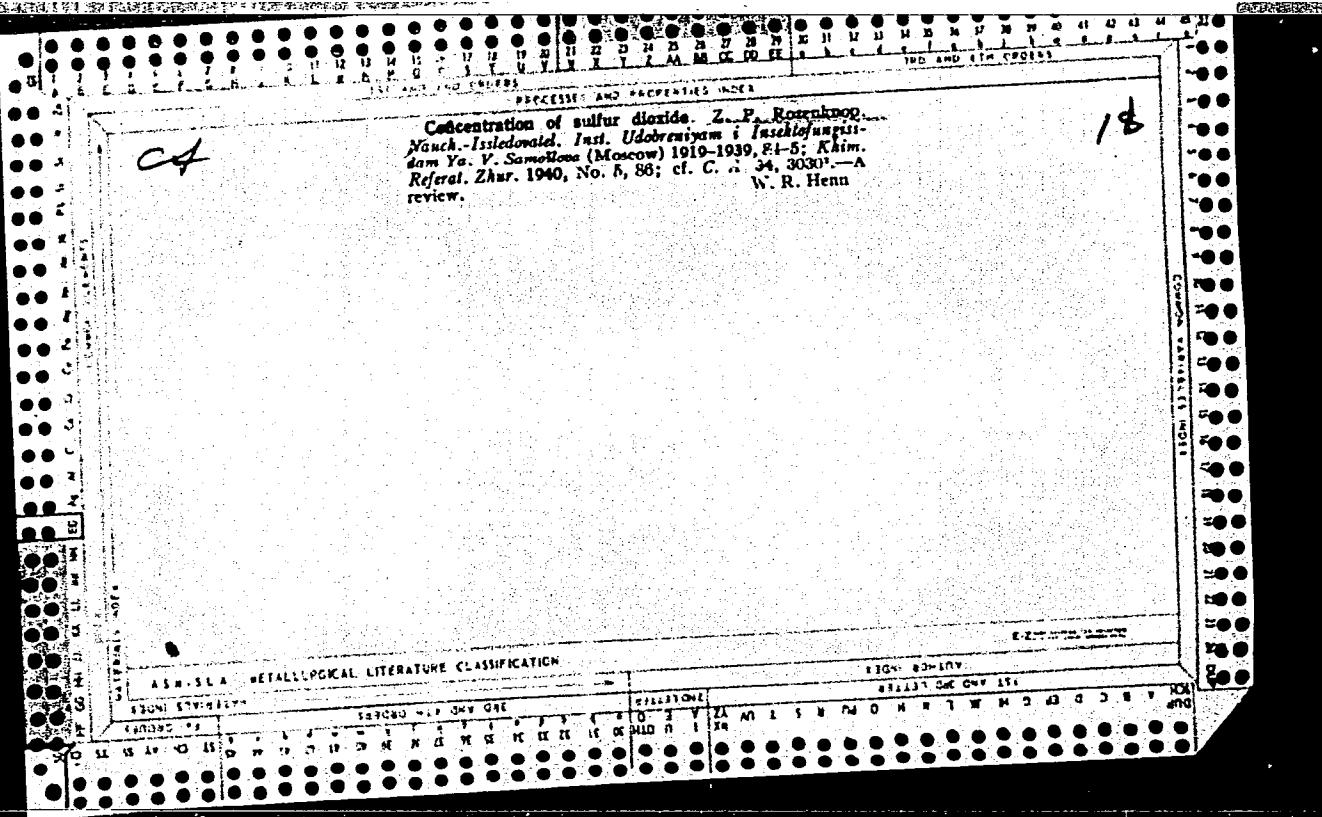


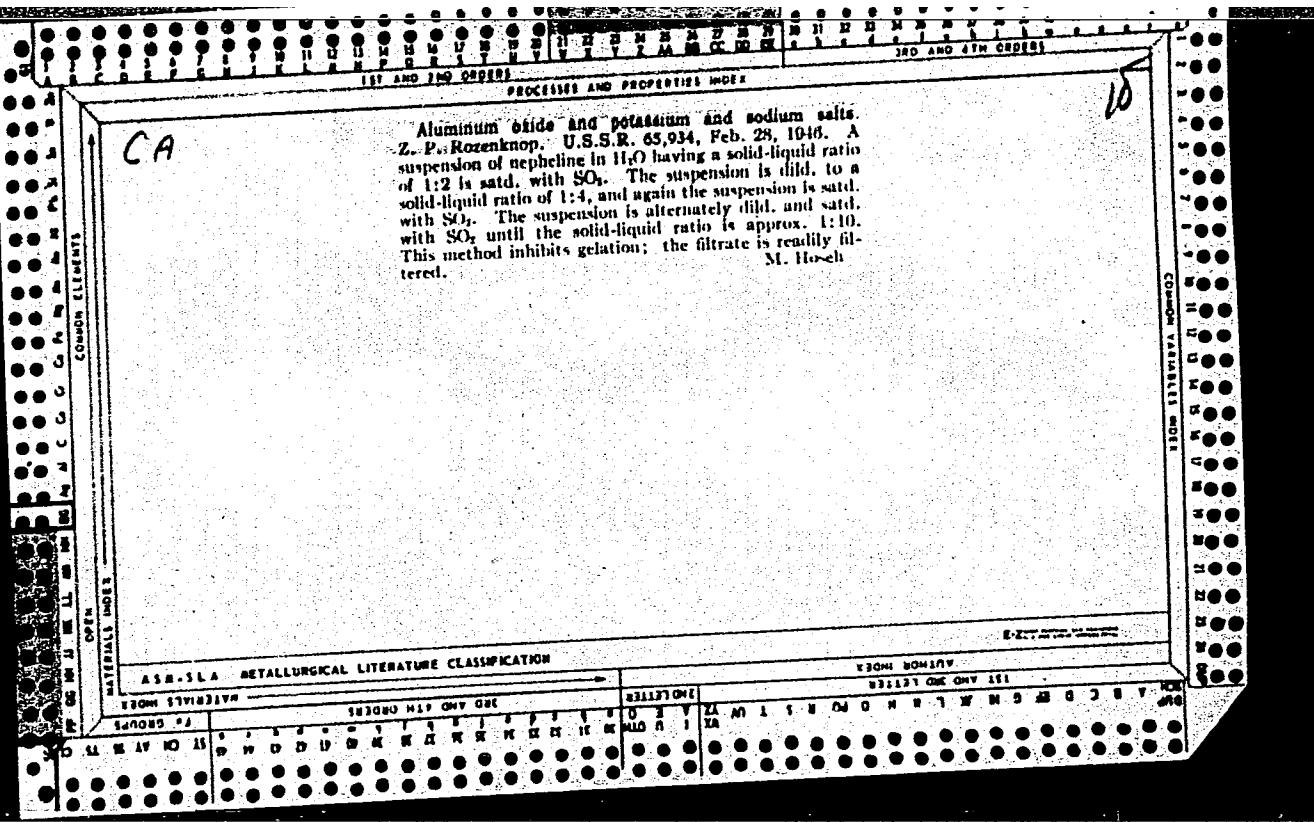


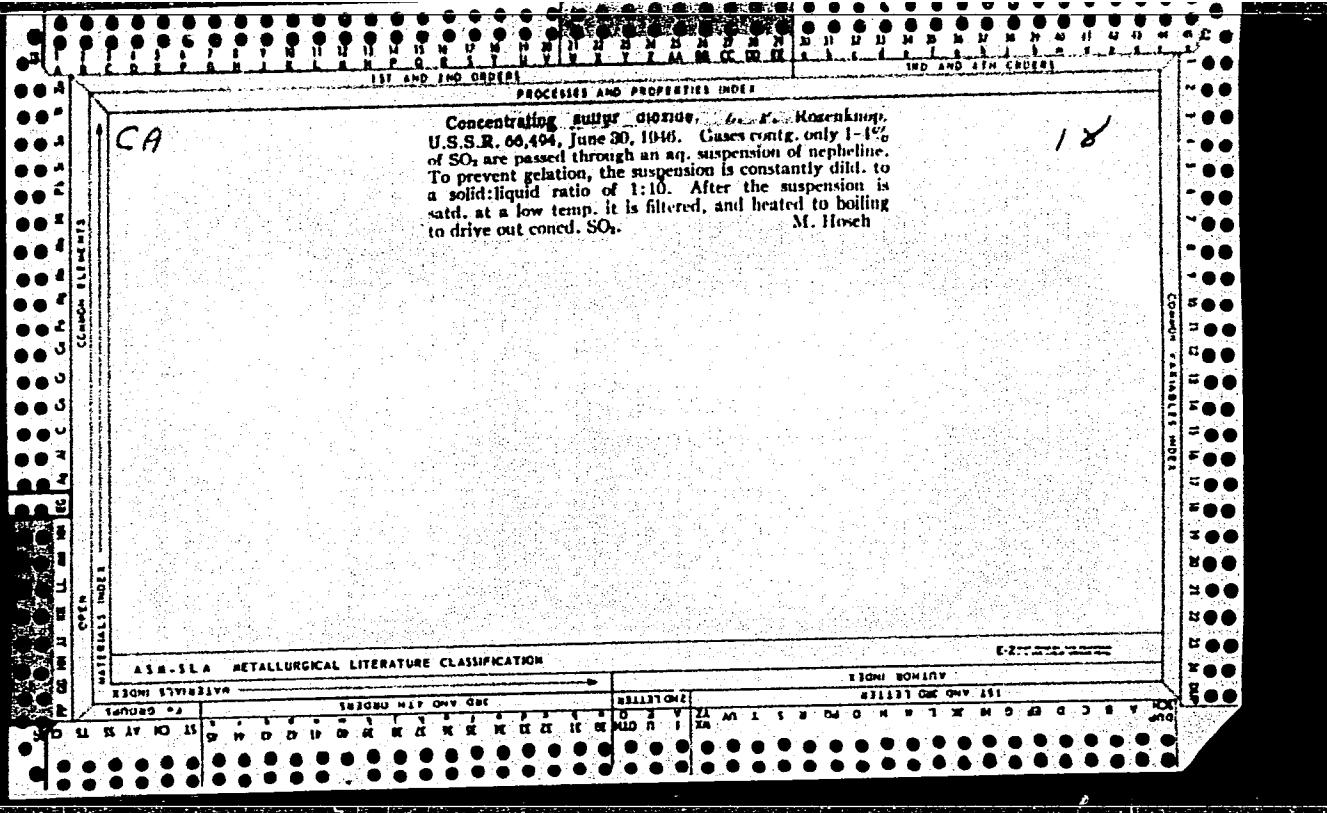












ROZENKNOP, Z.P.

[Extraction of sulphur dioxide from gases] Izvlechanie dvuokisoi sery
iz gazov. M, Goskhimizdat, 1952 [192 p.] (MLRA 8:4)
(Sulphur dioxide)

VASILENKO, N.A.; ROZENKNOP, Z.P.

Enrichment of sulfur dioxide with the simultaneous recovery of
nitrogen fertilizers. Zhur. prikl. khim. 33 no.9:1962-1968 S
'60. (MIRA 13:10)
(Sulfur dioxide) (Fertilizers and manures)

ROZENKNOP, Z.P.; SEDOV, N.V.

Part 1: Thermal dissociation of ammonium sulfate. Zhur. neorg. khim. 2 no.11:2543-2552 N '57. (MIRA 11:3)
(Ammonium sulfate) (Thermochimistry)

ROZENKNOP, Z. P.

Distr: 4E4J

✓ Thermal dissociation of ammonium sulfate. L. Z. P.
Rozenkrop and N. V. Sedov. Zhur. Neorg. Khim.,
25(3-4) (1987). The partial pressure P of NH_3 over $(\text{NH}_4)_2\text{SO}_4$ at 255° was detd. by the dynamic method in a current
of N_2 . The decrease of P with the amt. of $(\text{NH}_4)_2\text{SO}_4$ was
attributed to the solv. of the latter in NH_4HSO_4 formed.
From the exp'l. $P = 1.38 \times 10^{-3}$ atm. at 255° over 100%
 $(\text{NH}_4)_2\text{SO}_4$, the following values of P at 300, 280, 265, 255,
225, and 205° were calcd.: 0.0669, 0.0293, 0.0149, 0.0034,
0.00306, and 0.00065 atm., resp. L. Benowitz

KHRUSHCHEV, N.S.; PODGORNYY, N.V.; ZASYAD'KO, A.F.; RUDAKOV, A.P.; KAZANETS, I.P.; SHILIN, A.A.; MEL'NIKOV, N.V.; BURMISTROV, A.A.; SHEVCHENKO, V.V.; MAYAKOV, L.I.; ROZENKO, P.A.; KUZ'MICH, A.S.; ZADEMIDKO, A.N.; BRATCHENKO, B.F.; STRUYEV, A.I.; KRASNIKOVSKIY, G.V.; BOYKO, A.A.; KAGAN, F.Ya.; USKOV, A.A.; VLADYCHENKO, I.M.; TOPCHIYEV, A.V.; DEGTYAREV, V.I.; KHUDOSOVTEV, N.M.; GRAFOV, L.Ye.; IVANOV, V.A.; KRATENKO, I.M.; GOLUB, A.D.; IVONIN, I.P.; SAVCHENKO, A.A.; ROZHCHENKO, Ye.N.; CHERNEGOV, A.S.; MARKELOV, M.N.; LALAYANTS, A.M.; GAPONENKO, F.T.; POLUEKTOV, I.A.; SKLYAR, D.S.; PONOMARENKO, N.F.; POTAPOV, A.I.; POLYAKOV, N.V.; SUBBOTIN, A.A.; POLSTYANOV, G.N.; TRUKHIN, P.M.; TKACHENKO, A.G.; OSTROVSKIY, S.B.; NYRTSEV, M.P.; DYADYK, I.I.; SHPAN'KO, T.P.; RUBCHENKO, V.P.

Kondrat Ivanovich Pochenkov; obituary. Sov. shakht. 11 no.9:
(MIRA 15:9)
48 S '62. (Pochenkov, Kondrat Ivanovich, 1905-1962)

ROZENKO, P.A.

Basic problems in developing coal mining in the Ukrainian
S.S.R. in 1959 - 1965. Ugol' Ukr. 2 no.10:1-5 0 '58.
(MIRA 12:1)

1. Zamestitel' predsedatelya Gosplana USSR.
(Ukraine---Coal mines and mining)

RADCHENKO, G.P.; ROZENKRANTS, A.A.

New data on Permian sediments in the northeastern Balkhash region.
(MIRA 13:11)
Sov. geol. 3 no.4:111-115 Ap '60.

1. Vsesoyuznyy aerogeologicheskiy trest i Vsesoyuznyy nauchno-
issledovatel'skiy geologicheskiy institut.
(Balkhash region--Sediments (Geology))

Rozentrats, A.A.

STAAL', M.B.; ROZENKRANTS, A.A.; KOVALEVA, V.V.

Stratigraphy of upper Carboniferous deposits in the northeastern
Balkhash region. Sov. geol. no.52:128-134 '56. (MIRA 10:4)
(Balkhash region--Geology, Stratigraphic)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620013-5

ROZENKRAMPS, A.S., kand. tekhn. nauk; FEDOROV, A.V., inzh.

Control system for a reversible two-phase asynchronous motor
with d.c. input signal. Elektrotehnika 36 no.8:29-30 Ag
'65. (MIRA 18:9)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620013-5"

ROZENKRANTS, A. S., Engineer

Cand Tech Sci

Dissertation: "Investigation of Certain Types of the Induction Regulators with Additional Magnetization."

3/11/50

Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov.

SO Vecheryaya Moskva
Sum 71

Electrical Engineering Abst.
Vol. 57 No. 675.
Mar. 1954
Electrical Engineering

839. Modelling of an a.c. electromagnetic apparatus by an electric circuit. A. S. ROZENKRANTZ. Elektrichesivo, 1953, No. 5, 67-74. In Russian.

The problem considered is as follows: Let the configuration and the parameters of the magnetic and electric circuits of an electromagnetic apparatus be known; to find, by the use of physically possible concentrated elements, an electric circuit one of whose parts is a model of the magnetic, and the other of the electric, circuits of the given apparatus. The geometry of electric and magnetic circuits and their analytical representation indicate the solution of the problem, beginning with the simple and important case of the "electromagnetic quadrupole," for which direct and inverse equivalent circuits are found. The circuit modelling the electric part of the apparatus is correlated with the magnetic model circuit by transformers whose transformation ratios are determined by the numbers of turns of the corresponding windings of the apparatus. A general method is obtained for deriving the configuration of the modelling (or equivalent) circuit from the configurations of the modelled electric and magnetic circuits of the apparatus, the equivalent circuit having branches each of which corresponds to an individual branch of the original electric and magnetic circuits. Conditions for the possibility of modelling any given apparatus are also presented. The direct models may also be used for non-linear electromagnetic apparatus.

B. F. KRAUSE

ROZENKRANTS, A.S., kand.tekhn.nauk, dotsent

Using the frequency response of capacitance in the calculation
and deterioration control of insulation. Izv. vys.ucheb.zav.;
energ. no.5:34-42 My '58. (MIRA 11:8)

1. Ivanovskiy energeticheskiy institut imeni V.I. Lenina.
(Electric insulators and insulation) (Electric capacitance)

Review Project 115

110-4-9/25

AUTHORS: Rozenkrants, A.S., and Senitskaya, T.T., Candidates of Technical Sciences

TITLE: A Wattmeter Method for the Harmonic Analysis of Electrical Quantities (Vattmetrovyy metod garmonicheskogo analiza elektricheskikh velichin)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, No 4,
pp. 28 - 30 (USSR).^{2f}

ABSTRACT: A simple and reasonably accurate method of measuring harmonics of electrical quantities is proposed. Active power is the product of current and voltage of the same frequency. If either the voltage or the current is sinusoidal and the other is not, then the active power, when the frequency of the sinusoidal magnitude coincides with that of one of the harmonics of the non-sinusoidal quantities, does not depend on the values of these other harmonics. The proposed wattmeter method is based on this principle.

One winding of the wattmeter is connected to the non-sinusoidal magnitude, for example, current and the other to a purely sinusoidal one, for example, voltage. The expression for the power includes the cosine of the angle of lag of the current, which may be arbitrary. However, if the generator frequency is varied slightly to differ from the frequency of the measured harmonic

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110-4-9/25

A Wattmeter Method for the Harmonic Analysis of Electrical Quantities

by a fraction of a cycle, then the phase displacement changes slowly and the wattmeter needle swings. The swings are made so slow that inertia of the instrument can be neglected; from the maximum deflections the current can be determined.

For the measurements to be accurate the meters must have a low frequency error. Electro-dynamic instruments can be used for frequencies of from tens to hundreds of c.p.s. Electronic or thermo-electric instruments should be used for higher frequencies. The method can also be employed in a convenient portable harmonic analyser consisting of a sinusoidal generator of smoothly-controlled frequency and appropriate types of voltmeter and wattmeter. The errors of such a system are evaluated. There is 1 figure.

ASSOCIATION: Ivanovo Power Institute (Ivanovskiy energeticheskiy institut)
SUBMITTED: May 23, 1957
AVAILABLE: Library of Congress
Card 2/2

ROZENKRANTS, A.S., kand.tekhn.nauk, fots.

Automatic bridges and a.c. compensators. Izv.vys.ucheb.zav.; prib.
no.1:38-46 '59. (MIRA 12:11)

1. Ivanovskiy energeticheskiy institut imeni V.I. Lenina.
(Bridge circuits) (Electronic control)

S (2), 9 (6)
APR 01:

TITLE:

The Inter-University Scientific Conference
on Electrical Measuring Instruments and on the Technical
Means of Automation (Mezivuzovskaya nauchnaya
konferentsiya po elektronometricheskym priборam i
tekhnicheskim predstavam po tekhnike)

SOV/11-59-3-1-3/5

Priborostroyeniye, 1959, Nr. 3, pp. 30-31 (USSR)

ABSTRACT:

This Conference was held at the Leningradskiy elektrotehnicheskiy
institut im. V. I. Uljanova (Lenina) (Leningrad Institute of
Electrical Engineering named V. I. Uljanov (Lenin)) in
November 1958. It was attended by more than 500 representatives
of universities, scientific research institutes, of the NKB,
the GES (Special Design Office) of industries and other
organizations. More than 30 lectures were delivered in
the meeting of this Conference. In opening the conference
M. P. Boroditskiy underlined the outstanding importance
and of measuring technique for the development of automation
and economy. M. M. Shumilovskiy in his lecture "Report on
the Trends in the Development of Methods of Automatic
Control of Production Data" and outlined the extensive
possibilities of using radioactive methods in such control.

Ye. O. Shramkov and J. A. Slepnev reported on a new method
of measuring heavy direct currents with the help of the
nuclear magnetic resonance. M. A. Basanov investigated
problems of the application of magnetic amplifiers in
automation and in measuring techniques. A. V. Fayev
reported on the present-day status on the prospects of
automatic control techniques. Ye. Z. Tsyplkin investigated
one peculiar feature of and the prospects offered by
automatic pulse systems. The lecture by M. G. Boldyrev
dealt with problems of stability of discrete automatic
systems. L. B. Ushakov discussed the main trends in the
development of mathematical analog computers and of
computers designed for industrial use. The report by
V. S. Ryabushkin deals with an electronic analog correlator
for the calculation of correlation functions in the
investigation of winds in the ionosphere. B. I. Vergaman
reported on the most important methods which guarantee
both an active and passive freedom from disturbances in a
discrete selective system. Ya. Y. Jaroshevskiy discussed
problems of averaging, differentiation and balancing
of time-dependent functions which can be represented by
electronic signals. V. P. Skuridin investigated new computing
devices with polarized relays. A. V. Dubin reported on instruments for automatic
transformers which guarantee instruments with high
accuracy. V. B. Danilov and
N. M. Kopyt'ev reported on a computer for the automatic
centralized control of production specifications. G. M.
Pashkov discussed fundamental problems of the theory of
automatic measuring instruments with an inverse conversion
for the measurement of non-electric quantities. Ye. I.
Troyakov dealt with problems of the construction of
automatic d. c. potentiometers with high accuracy. D. I.
Makarov discussed a high-precision automatic d. c. bridge
for digital computations. The participants in the Congress
listed below discussed the following subjects (which,
however, are not given by the exact wording of the titles):

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Y. A. Ivantsov The planning of measuring elements for

SOV/119-59-1-13/5

The Inter-University Scientific Conference on
Electrical Measuring Instruments and on the Technical
Means of Automation

accurate automatic quotient-type meters in digital computations.
 B. R. Kharchenko Methods of determining the dynamic errors
 of a magnetic oscilloscope by simulation. P. P. Ornatskiy
 Problems in measuring electric quantities at extremely low
 frequencies by electrical indicating instruments of various
 types. In V. Kukunsky, "Novel types of a. c. compensators,
 a. c. automatic bridges and a. c. comparators
 for control of the parameters of condensers in
 series production." I. I. Stolov. Some characteristics of
 bridge induction motors which can be used in measuring
 pressure and automation. D. M. Borodovskiy. Ultrasonic
 technique and automation. Yu. A. Skidnik. The
 circuitry of a phase-sensitive combination indicator for
 a. c. seal-equilibrium bridges. J. Suvida. The application
 of instruments with magnetic bridges, which permit a
 considerable simplification of the design of the apparatus
 and the circuitry used in the measurement of non-electric
 quantities. V. A. Ferguts. Method of increasing the
 sensitivity of oxygen gas analyzers. P. V. Jovitsky!

Card 4/5

Design of apparatus for measuring vibration quantities.
 V. V. Pashinov. Main types of nonlinear semiconductor
 resistors and possibilities of their application to
 resistive and piezoresistive measuring techniques. G. V.
 Koropashchany Development of measuring amplifiers with
 semiconductor triodes. Ya. V. Novosel'skii, N. A. Jarmanov,
 Ye. Ye. Afanasyev, Ye. P. Ulyanov. Precision semiconductor
 frequency meter operating according to the pulse-counting
 principle. P. G. Nikitin and A. Serekin. Methods of
 measuring the magnetic field strength by means of biplanar
 resistors and transducers operating on the Hall effect
 principle. A resolution was adopted by the closing plenary
 meeting of the Conference, which indicates ways of
 improving and coordinating scientific research work in the
 field of automation, electric measuring and computing
 techniques.

Card 5/5

ACC NR: AP6027915

SOURCE CODE: UR/0105/66/000/006/0052/0058

47

B

AUTHOR: Rozenkrants, A. S. (Candidate of technical sciences, Docent)ORG: Ivanov Power Institute im. Lenin (Ivanovskiy energeticheskiy institut)TITLE: Nonlinear electrical field in a radiation ionized dielectric

SOURCE: Elektrichestvo, no. 6, 1966, 52-58

TOPIC TAGS: dielectric property, Poisson equation, radiation simulation, boundary value problem

ABSTRACT: The paper deals with the reversible changes in electrical and nonelectrical parameters in instrumentation operating under the effect of ionizing radiation. The changes are observed during the period of radiation and depend on the intensity of the radiation dose. Special attention is directed to the effect of such radiation on the electrical field and on the parameters which depend directly on this field (conductance, capacitance, electrical strength, loss angle, etc.). The development and substantiation of theoretical principles for the analysis of these responses, using probabilistic and mathematical simulation techniques are discussed. It is shown that the analysis of an electrical field in an irradiated object (specifically, a gaseous dielectric) can be reduced to the solution of a Poisson equation boundary problem, with the volume charge distribution not known a priori, since this distribu-

Card 1/2

UDC: 537.212:539.1.04

L 40076-66 EWT(1)/T IJP(c)

ACC NR: AP6019201

(A)

SOURCE CODE: UR/0143/66/000/002/0019/0025

AUTHOR: Rozenkrants, A. S. (Candidate of technical sciences, Docent)

ORG: Ivanovo Energetics Institute imeni V. I. Lenin (Ivanovskiy energeticheskiy institut)

TITLE: Calculation of some transition processes of a nonlinear electric field in a gas ionized by radiation

SOURCE: IVUZ. Energetika, no. 2, 1966, 19-25

TOPIC TAGS: ionized gas, similarity theory, ionizing radiation

ABSTRACT: Similarity methods are applied to the solution of a problem describing nonlinear discharge processes arising due to space charge in gases ionized by radiation. The rate equations for singly ionized species are written for parallel plate geometry and applied to those problems where ionic diffusion can be neglected; both constant and varying applied potentials are treated. The rate equations are rewritten in dimensionless form and solved numerically. The form of equation and selection of proper dimensionless parameters lead to a solution for a large range of parameters with a manageable number of computations. Selected results are given to illustrate the behavior of current density, ion and electron concentrations and potential distributions. The analytic method described here is useful for predicting actual behavior of discharges

UDC: 537.218.00.24

Card 1/2

ROZENKRANTS, A.S., kand. tekhn. nauk, dotsent

Similitude criteria of a nonlinear electric field in a media
ionized by irradiation. Izv. vys. ucheb. zav.; energ. 8 no.6:
23-27 Jr. '65. (MIRA 18:7)

1. Ivanovskiy energeticheskiy institut imeni Lenina. Predstavlena
kafedroy teoreticheskikh osnov elekrotehniki.

L 3002-66 EWT(d)

ACCESSION NR: AP5020032

UR/0292/65/000/008/0029/0130
621.316.72/77

35
B

AUTHOR: Rozenkrants, A. S. (Candidate of technical sciences); Fedorov, A. V.
(Engineer)

TITLE: Control circuit for a reversible 2-phase induction motor with a d-c input signal

SOURCE: Elektrotehnika, no. 8, 1965, 29-30

TOPIC TAGS: servomotor

ABSTRACT: The development of a transistorized circuit for reversible control of a small (RD-09) 2-phase servomotor is reported. The motor control winding is supplied from a transformer whose primary is fed by pulses from a push-pull P201-transistor circuit. The push-pull transistors are controlled by a pair of smaller transistors to which d-c voltage signals are applied. The motor is reversed by reversing the d-c voltage polarity. Testing of laboratory model revealed a practically sinusoidal voltage on the motor control winding, a low inertia of the circuit, and a high (about 40,000) power gain. Also a possibility of eliminating the rectifier smoothing filter and using full-wave-rectified pulses in the push-pull circuit was explored. Orig. art. has: 4 figures and 10 formulas.

Card 1/2

L 3002-66

ACCESSION NR: AP5020032

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC, IE

NO REF SOV: 003

OTHER: 000

Card 2/2 *Med*

L 63877-65 EWT(m) DIAAP

ACCESSION NR: AP5015782

UR/0143/65/000/006/0023/0027

537.218

17

16

6

AUTHOR: Rozenkrants, A. S. (Candidate of technical sciences, Docent)

TITLE: Similitude criteria of a nonlinear electric field in a radiation-ionized medium

SOURCE: IVUZ. Energetika, no. 6, 1965, 23-27

TOPIC TAGS: ionized medium, radiation ionized medium, electric field, nonlinear electric field

ABSTRACT: Five similitude criteria are derived from a system of nonlinear partial differential equations describing the phenomena of ionization, recombination, drift, and diffusion of particles in a gas subjected to a radiation ionization; far-from-breakdown conditions are considered. The similitude criteria describe the main course of events, relative recombination, and relative diffusion (often neglected). With a proper allowance for the boundary condition specific for a given problem, the use of the above similitude criteria is claimed to reduce digital or analog computer work by several hundred times. Orig. art. has: 28 formulas.

Card 1/2

ROZENKRANTS, A.S., kand.tekhn.nauk, dotsent

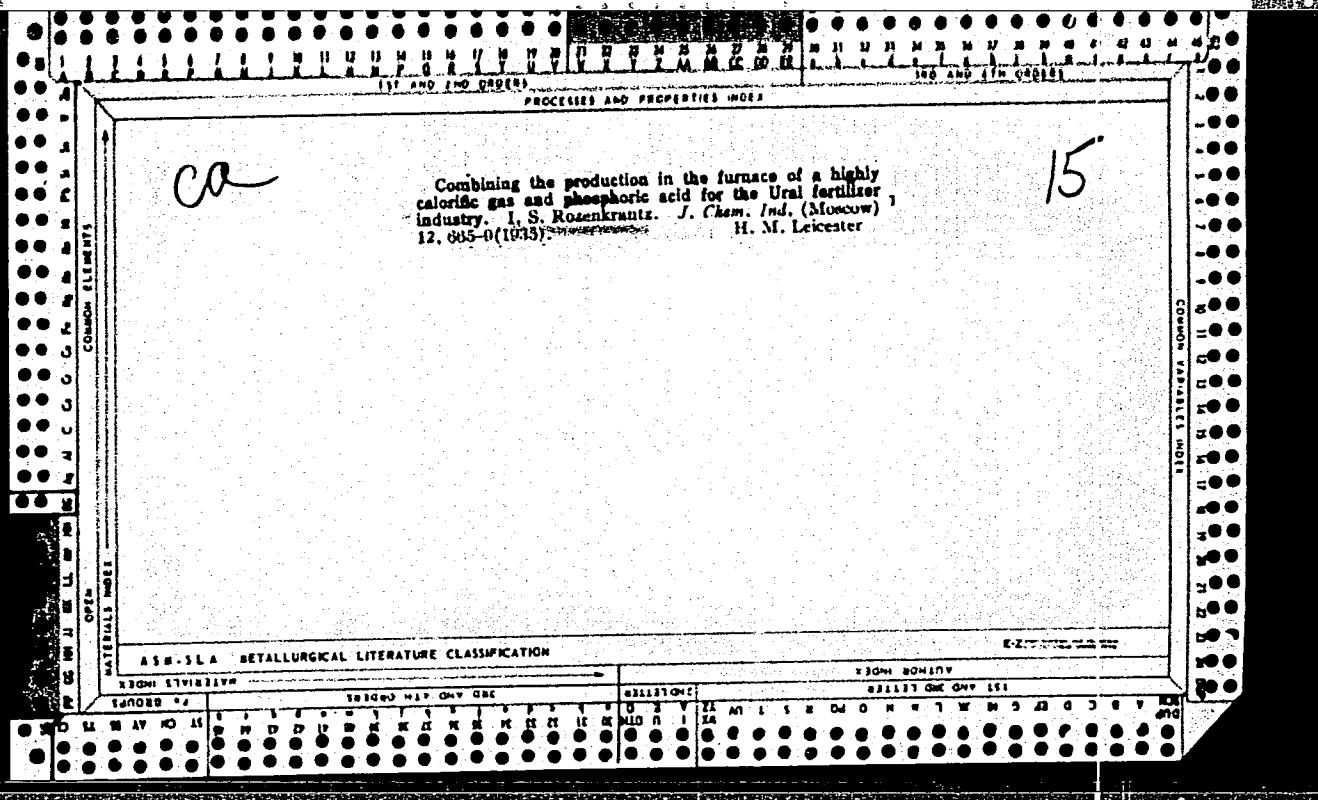
Contribution to the theory of an RC oscillator for deriving voltages
with constant phase shift over a wide frequency range. Izv. vys.
ucheb. zav.; energ. 6 no.3:35-41 Mr '63. (MIRA 16:5)

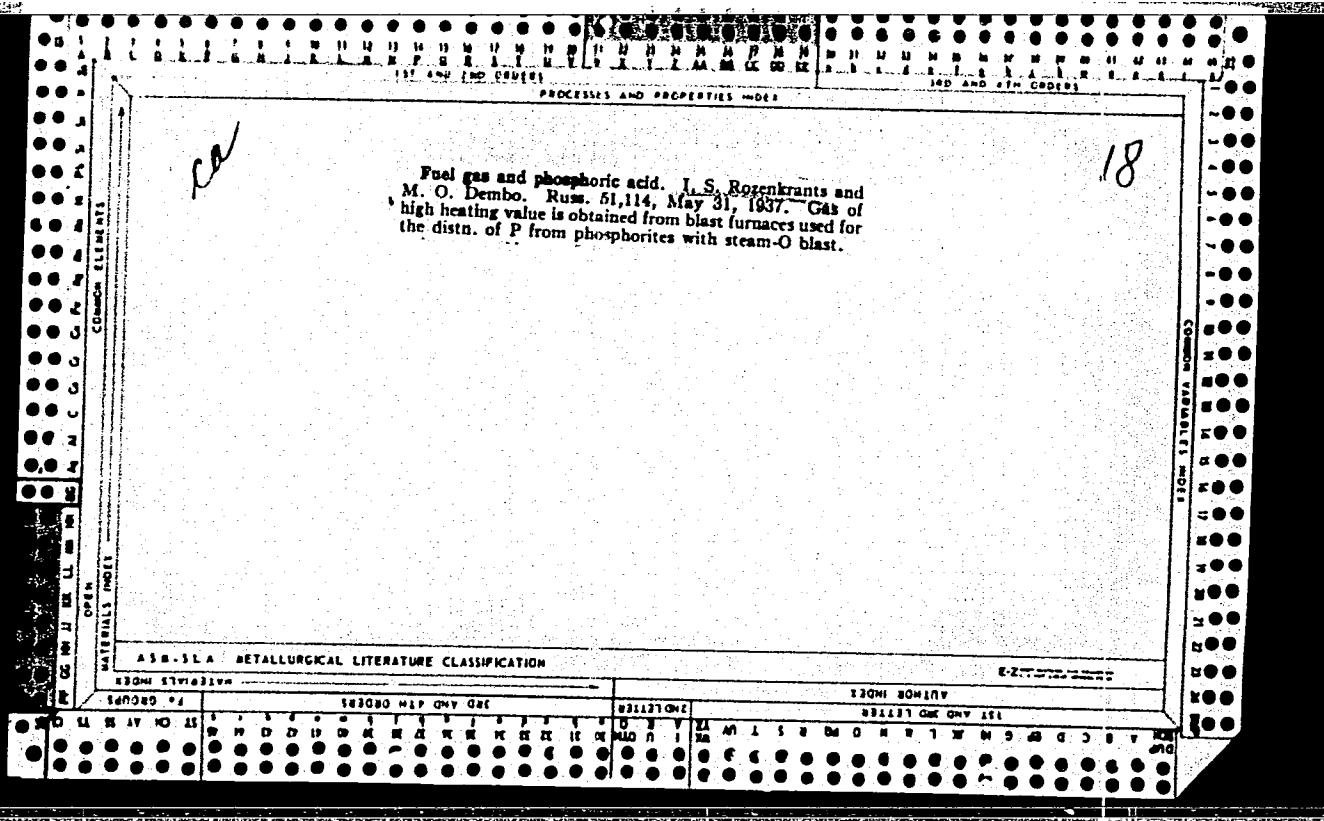
1. Ivanovskiy energeticheskiy institut imeni V.I.Lenina.
Predstavlena kafedroy teoreticheskikh osnov elektrrotekhniki.
(Oscillators, Electron-tube)

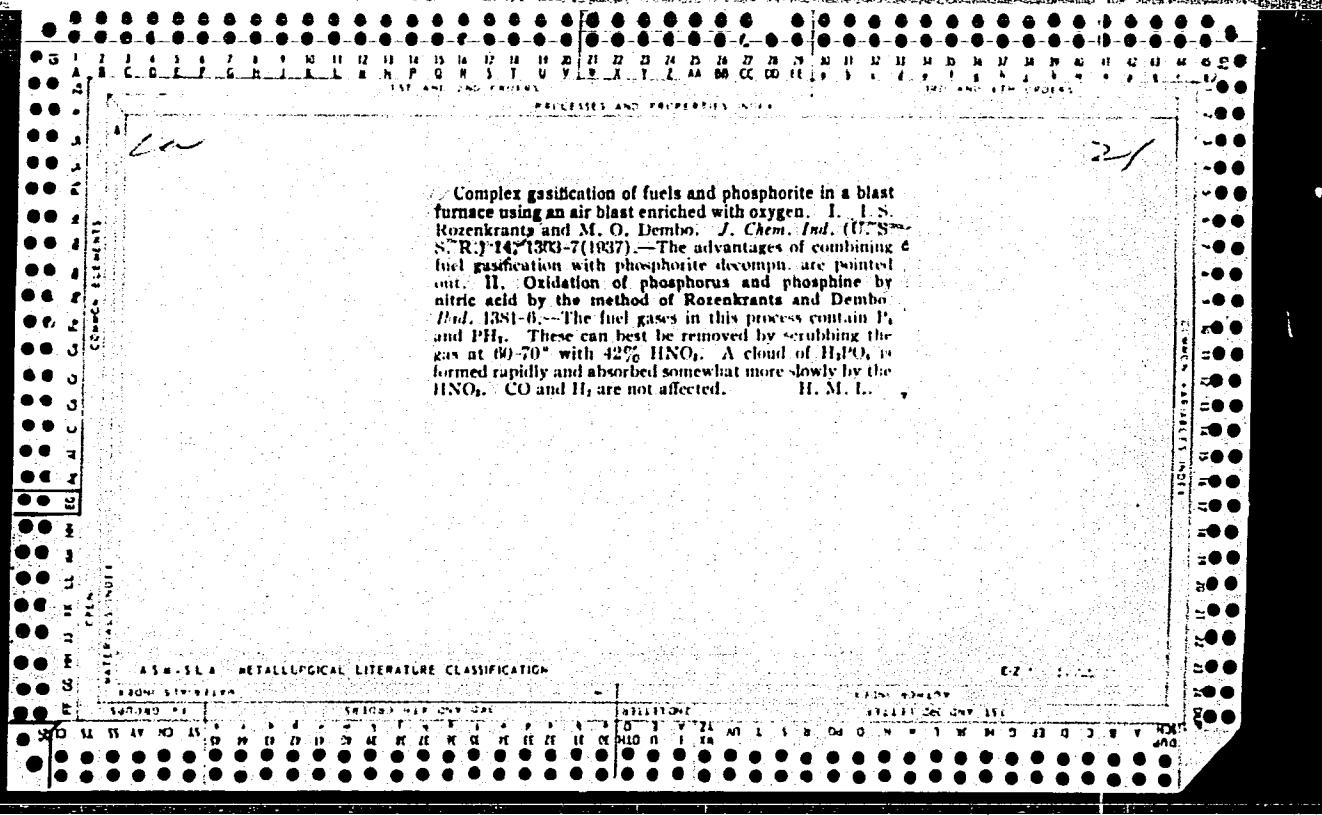
YUZ'KO, S., kand. tekhn. nauk; ROZENKRANTS, I., kand. tekhn. nauk;
MAMONTOVA, O., kand. khim. nauk; PATLYAKEVICH, D., inzh.;
KISLITSIN, S.; KISLITSIN, Ye.; BUKHARSKIY, G.; RYZHKOV, F.,
izobretatel'; SOLOVSKIY, B., inzh.-mekhanik

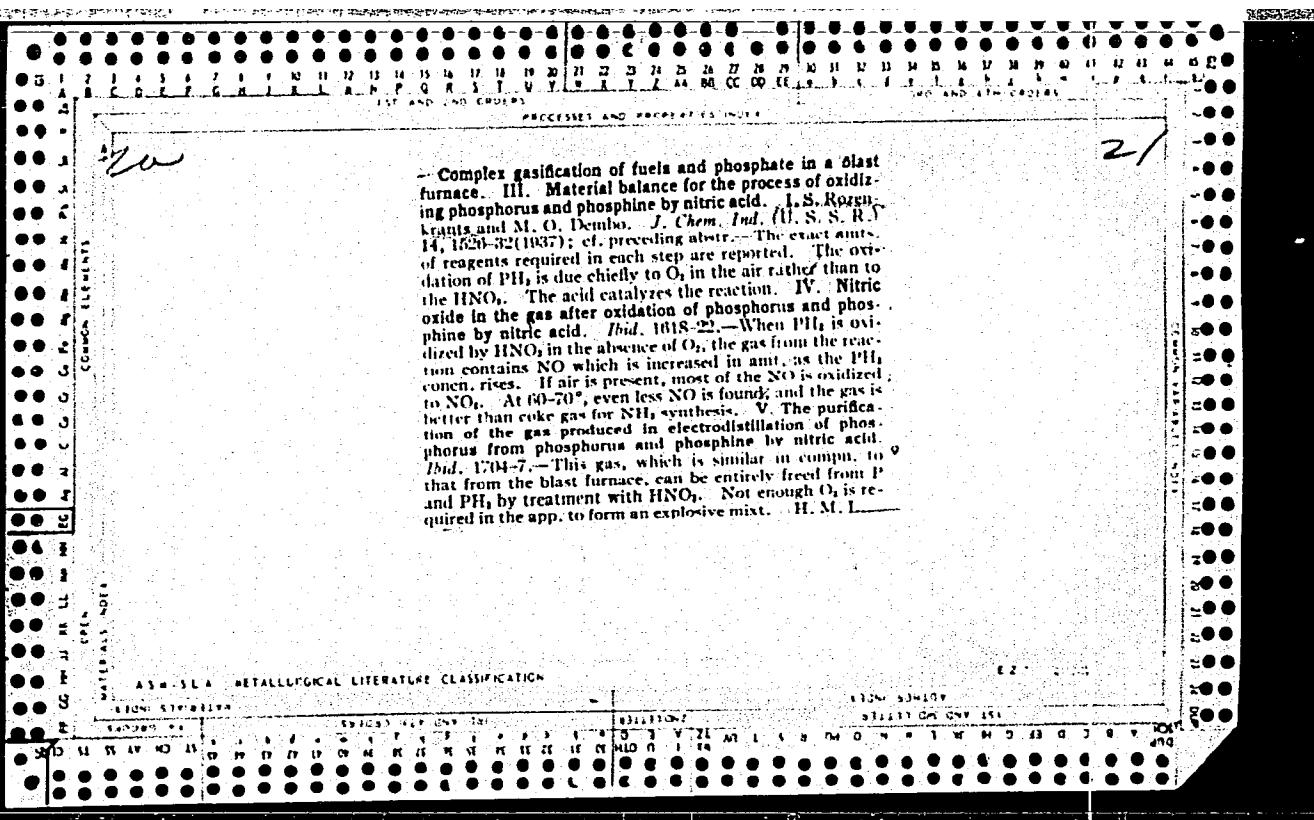
Helping crops. NT0 6 no.6:9-12 Je '64. (MIRA 17:8)

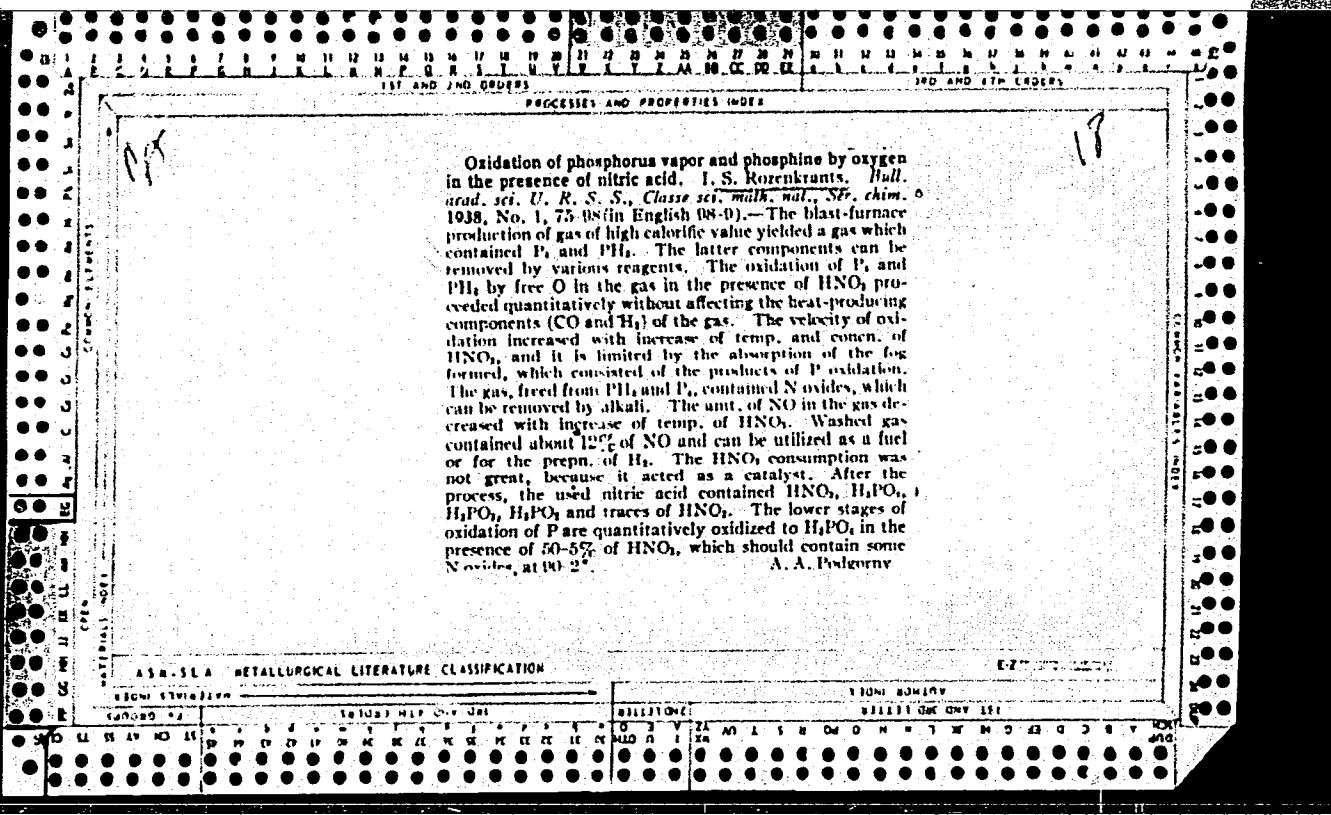
1. Uchenyy sekretar' soveta Nauchno-tehnicheskikh obshchestv
Ul'yanovskogo oblastnogo ob'yedineniya "Sel'khoztekhnika"
(for Bukharskiy).

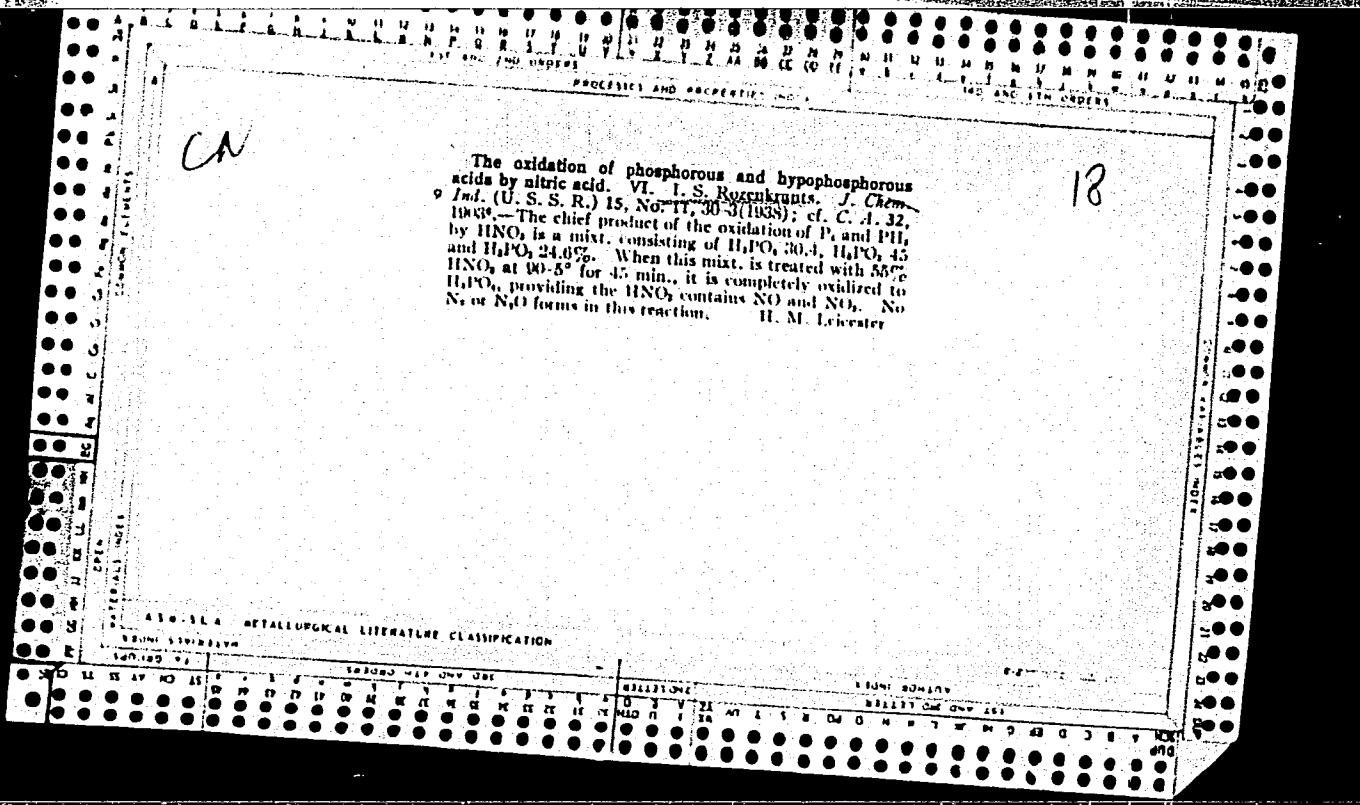


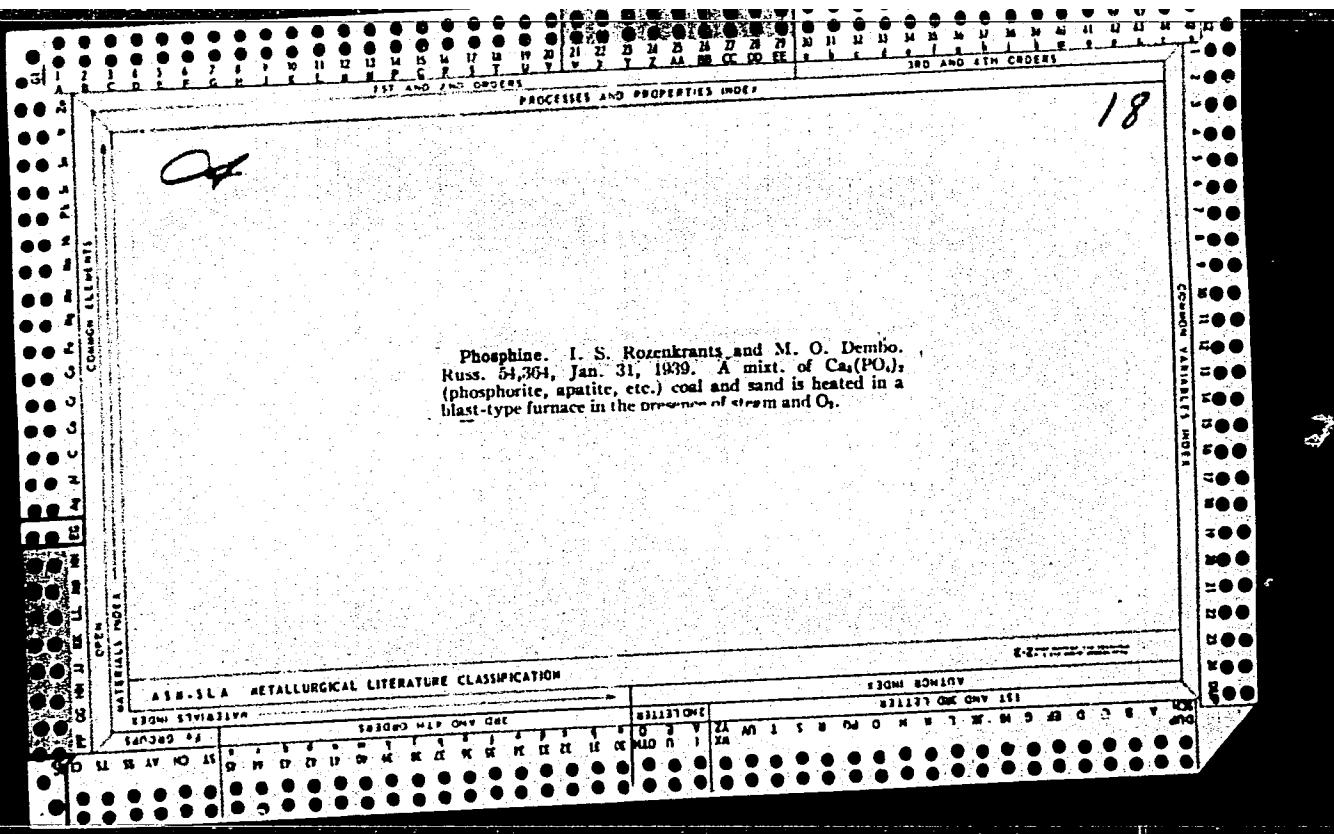


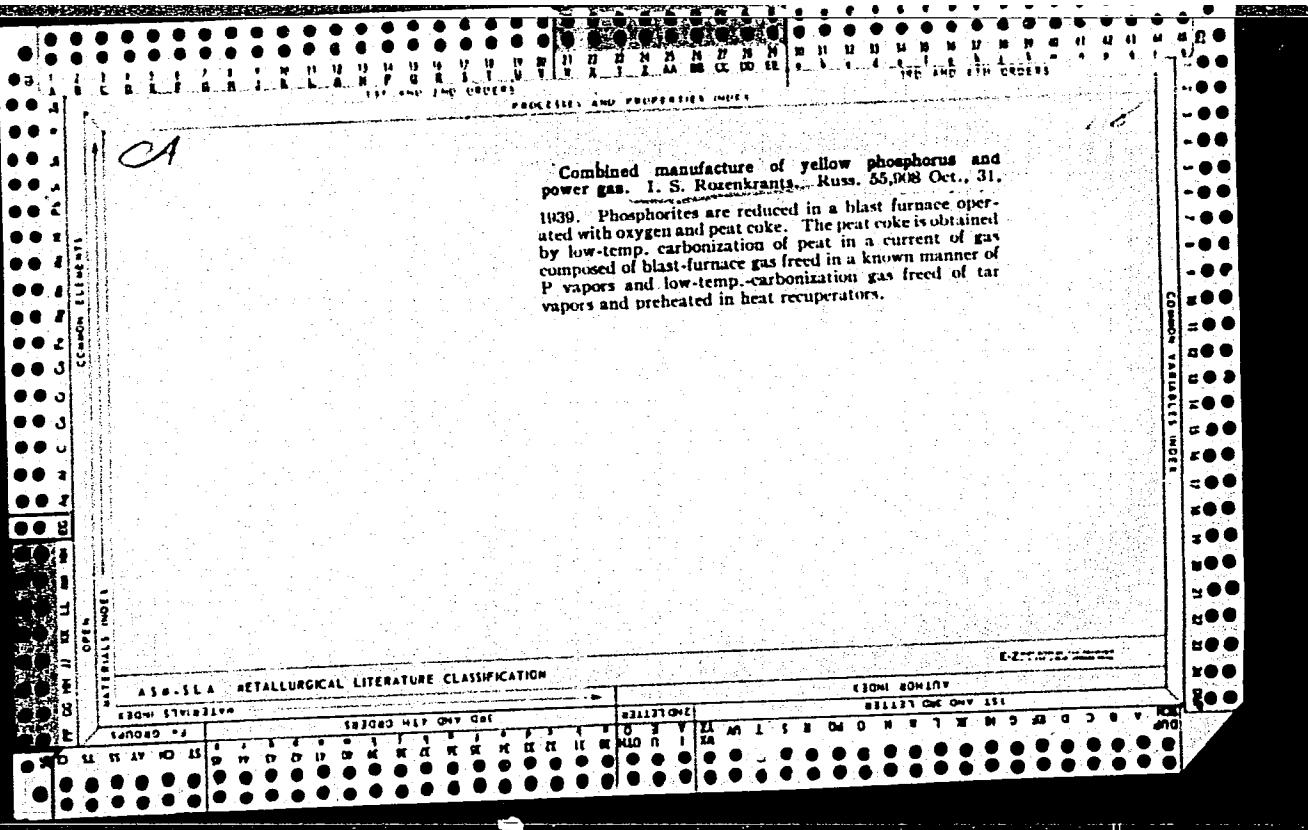


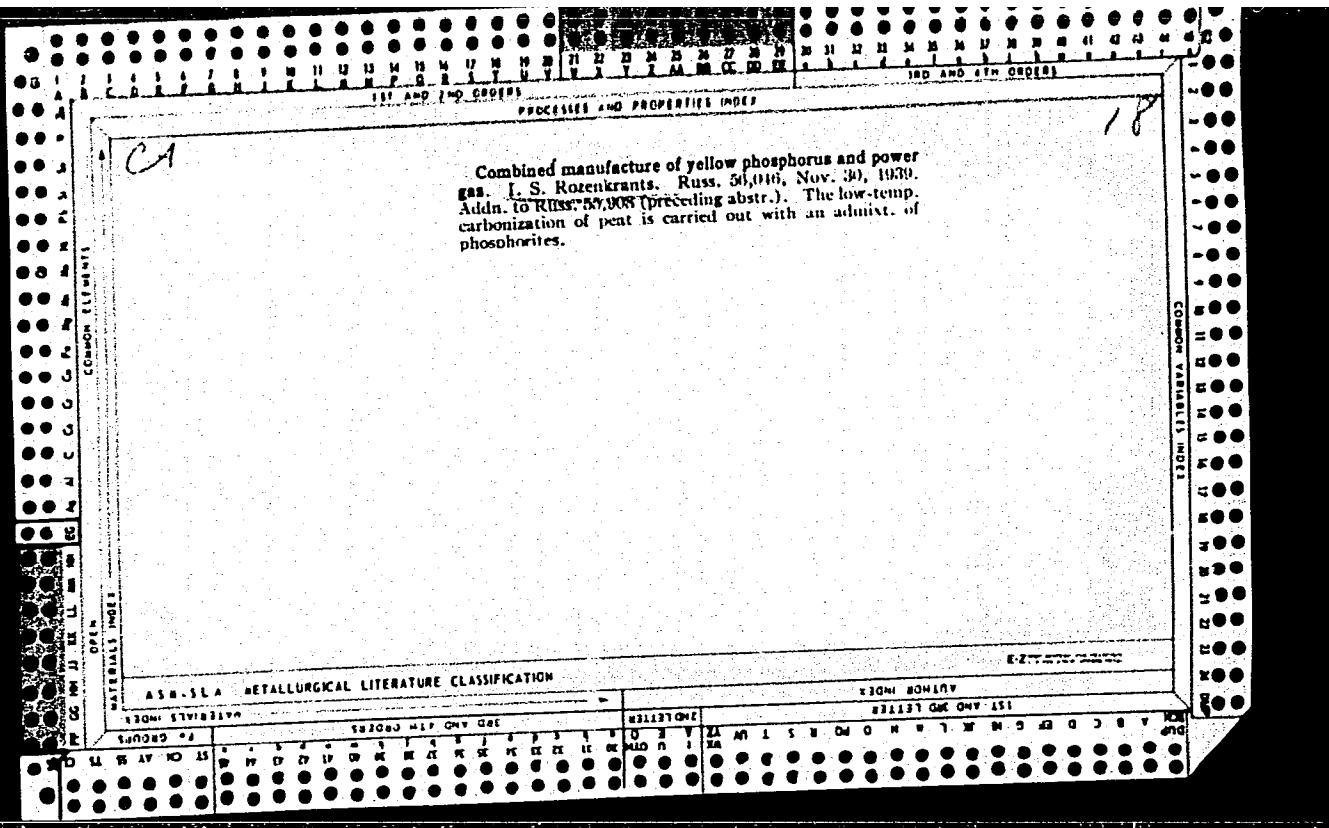


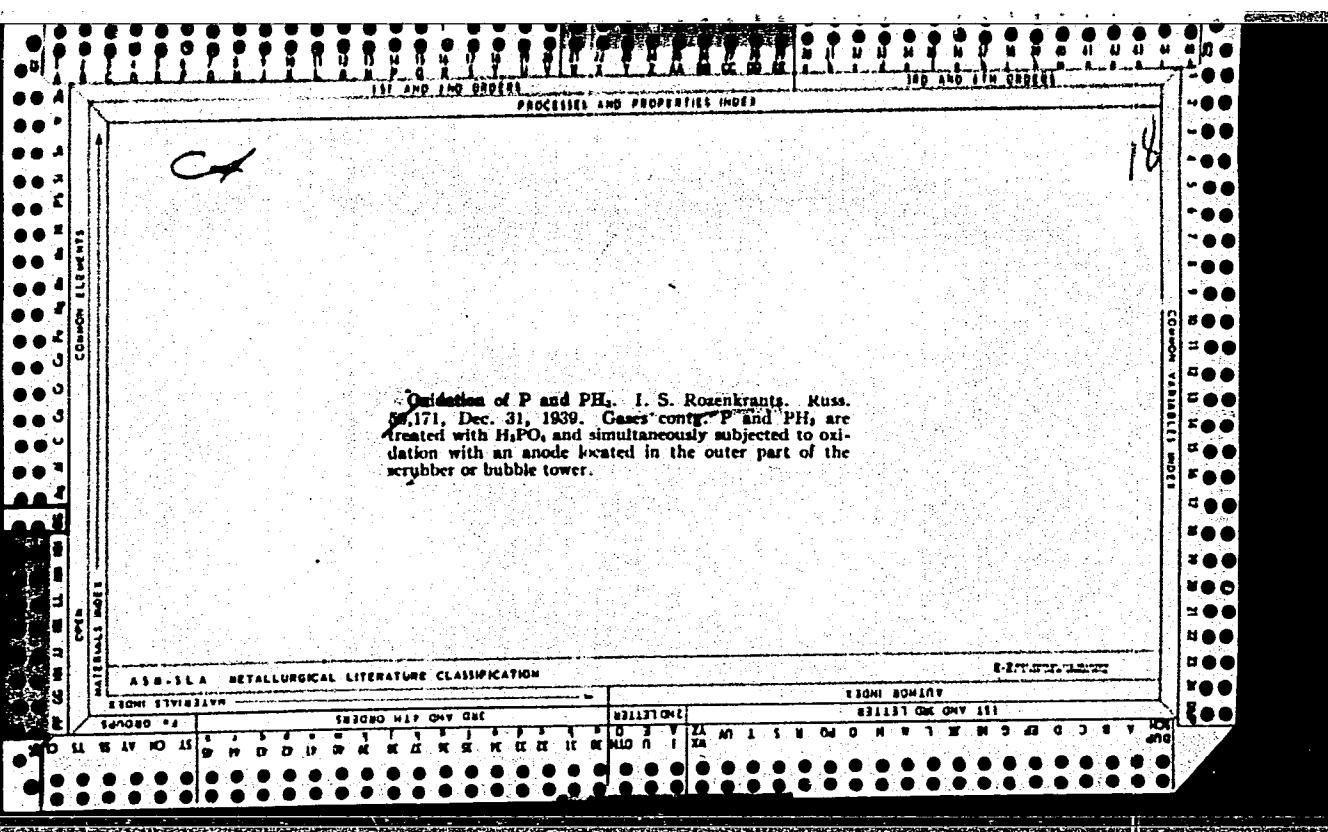








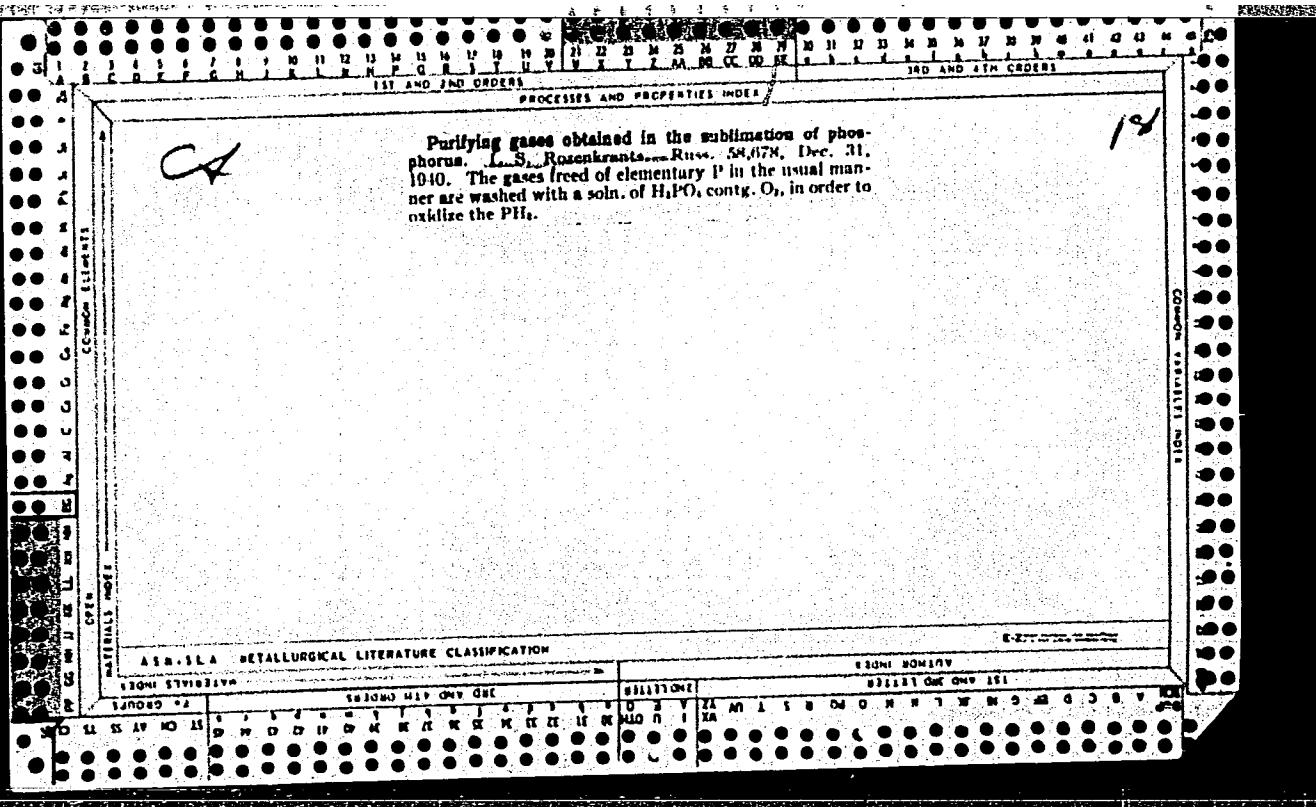


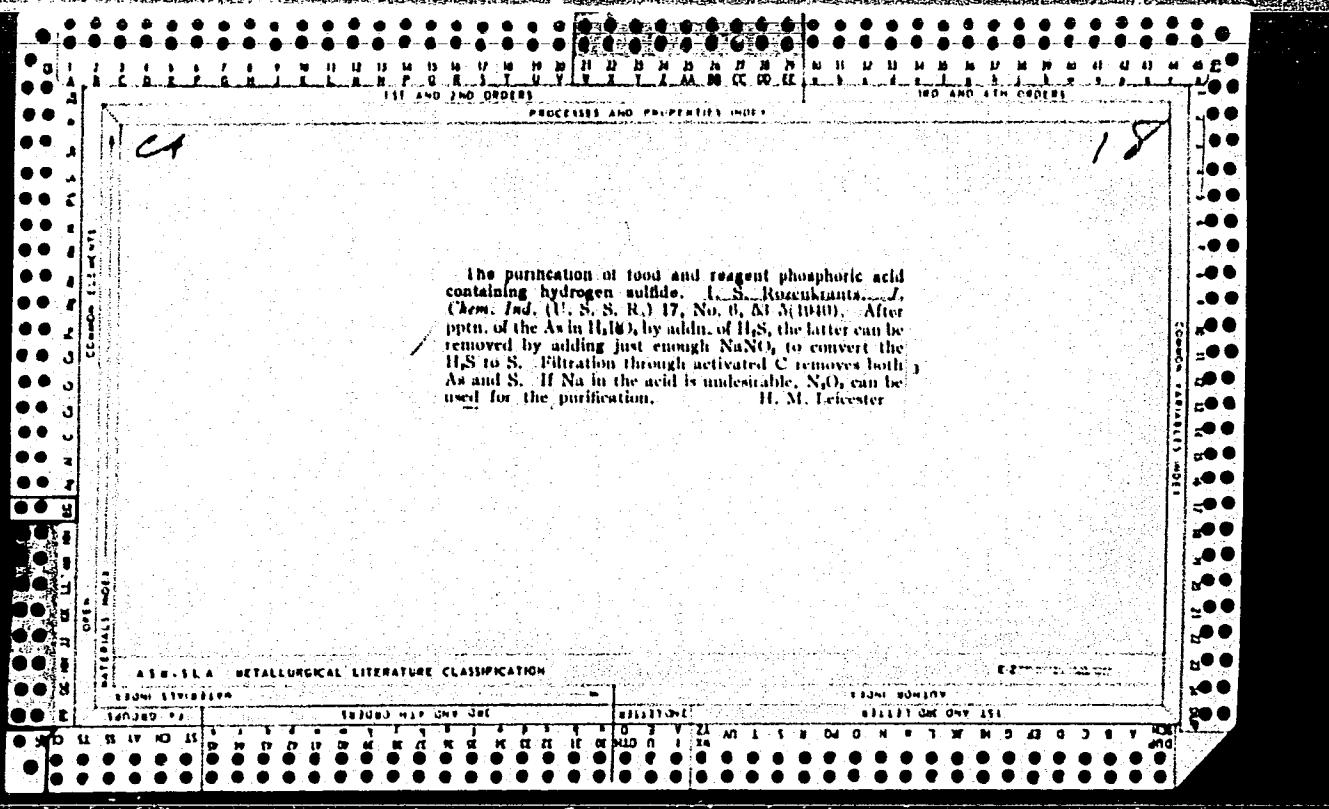


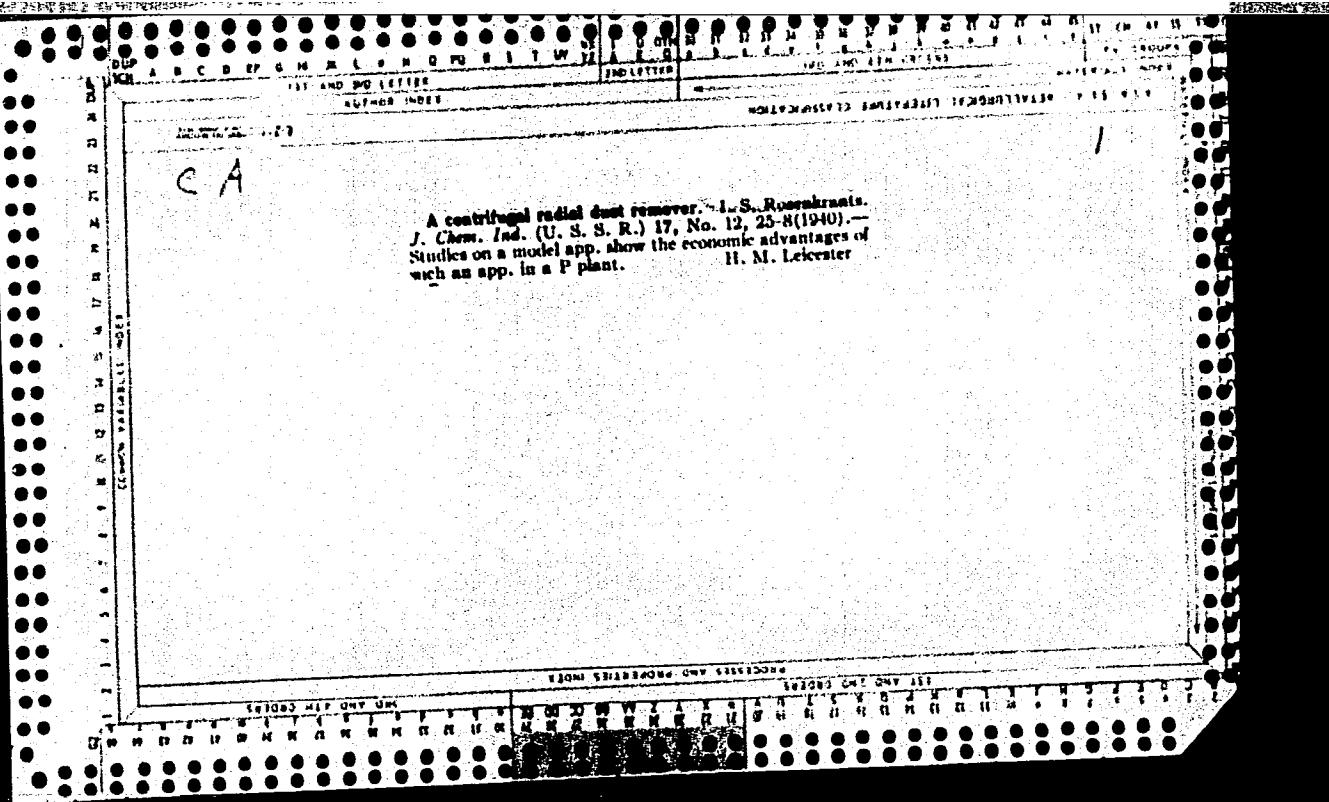
ROZENKRANTS, I. S.

"H₃AsO₄ and H," I. S. Rozenkrants, Russ Pat/ 58,371 30 Nov 1940
(SEE: Inst. Insect/Fungi. in Ya. V. Samoylov)

SO: U-237/49, 3 April 1949



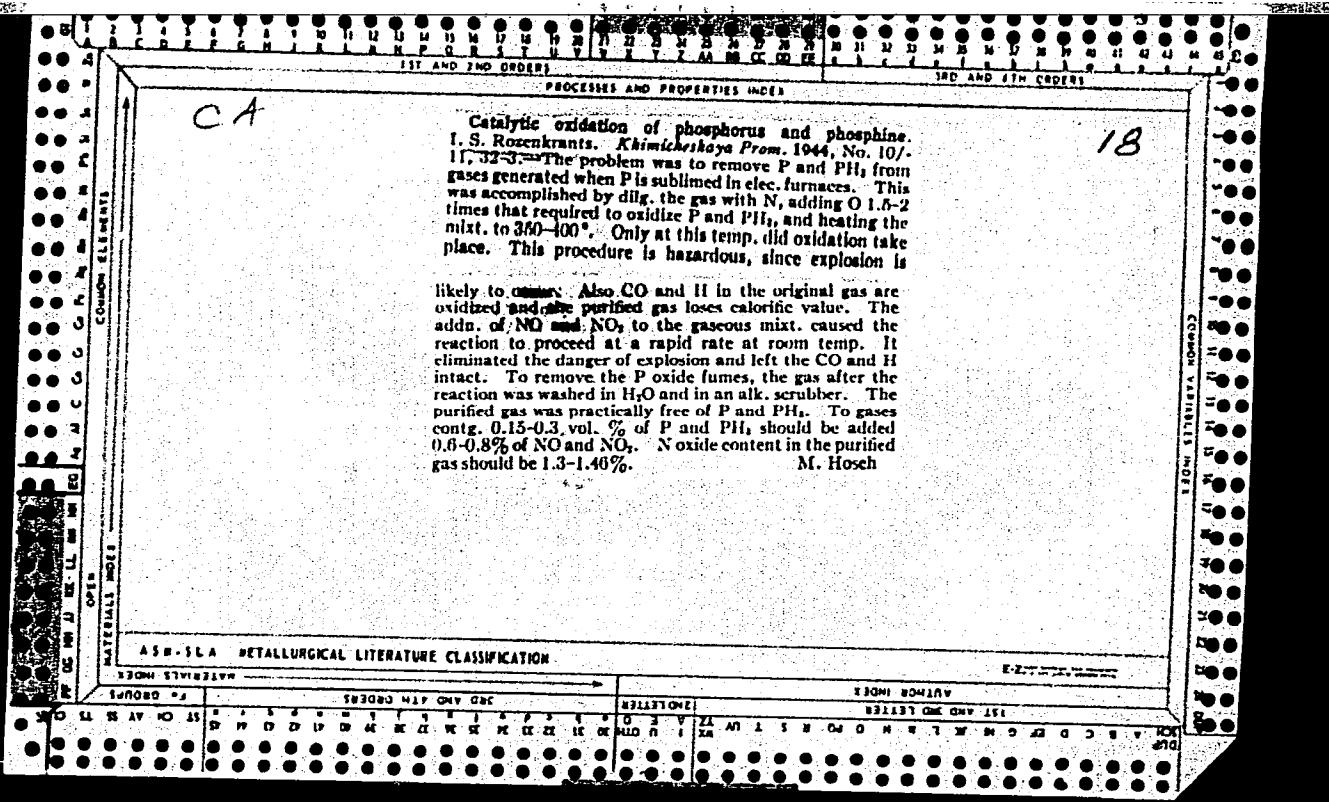




ROZENKRANTS, I. S.

"Purifying Gases Obtained in the Sublimation of Phosphorus," I. S.
Rozenkrants, Russ Pat 58,678, 31 Dec, 1941 (SEE: Inst. Insect/Fungi
in Ya. V. Samoylov)

SO: U-237/49, 8 April 1949



ROZENKRANTS, I.S., kandidat tekhnicheskikh nauk

Use of centrifugal pneumatic vertical-type grinders for pulverizing
arsenic-containing insecticides. Khim.prom.no.1:23-24 Ja'47.
(Insecticides) (Milling machinery) (MLPA 8:12)

ROZENKRANTS, I.S.

The nitric acid method of obtaining concentrated arsenic acid as
a basis for the production of arsenic pentoxide and calcium
arsenate. [Trudy] NIUIF no.167:73-109 '60. (MIRA 13:8)

(Arsenic oxides)

(Calcium arsenates)

(Insecticides)

ROZENKRANTS, I.S.

Semidry method of producing Paris green. [Trudy] NIULF no.167:118-
132 '60. (MIRA 13:8)

(Paris green)

L 44586-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6015667 (A) SOURCE CODE: UR/0413/66/000/009/0075/0075

13

INVENTOR: Rozenkrants, Kh. G.; Anlauf, R.; Pel' mann, A.

B

ORG: none

TITLE: Preparation of ketone-formaldehyde resins modified with rubber. Class 39,
No. 181288 ✓

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 75

TOPIC TAGS: formaldehyde resin, ketone formaldehyde resin, resin

ABSTRACT: This Author Certificate introduces a method of preparing ketone-formaldehyde resins modified with rubber by condensation of methylcyclohexanone with synthetic butadiene or butadine styrene rubber in the presence of a catalyst. To obtain products of high hardness, good solubility, and compatibility with various

Card 1/2

UDC: 678.683.2' 31' 21:678.762.2-9

L 44586-66

ACC NR: AP6015667

film-forming substances, the polymerization is carried out in aliphatic hydrocarbons
in the presence of a water-alcohol solution of an alkaline catalyst. [Translation]

[LD] 0

SUB CODE: 11 / SUBM DATE: 28May62/

Card 2/2 LJM

NEUSYKHIN, B.M., arkhitektor; ROZENKRANTS, Yu.F., inzh.

Constructing roofs for spinning shops of synthetic-fibre
factories without skylights. Stroi.prom. 27 no.2:22-23
F '49. (MIRA 13:2)

1. Gosudarstvennyy proyektnyy institut stroitel'noy promy-
shlennosti.
(Skylights) (Textile factories)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620013-5

PETRIK, Milos, inz. CSc., ROZENKRANZ, Jaromir, inz.

The UTAM-S7 string frequency meter. Stav cas 12 no.9:583 '64.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620013-5"

Author: N. V. Meloshkin, R. P. (Engineer); Prokhorov, N. N. (Doctor of technical sciences);
Korostenskiy, T. A. (Engineer)

ORG: none

TITLE: The effect of the rate of deformation on the mechanical properties of the
zone of steel 1Kh18N9T near the seam

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. Prochnost' svarynykh konstruktsiy
(Strength of welded structures). Moscow, Izd-vo Mashinostroyeniye, 1966, 216-226

TOPIC TAGS: welding, metal deformation, welding technology, weld effect, weld
evaluation, steel/ 1Kh18N9T steel

ABSTRACT: Experimental work was performed for the purpose of duplicating brittle failures in austenite steels at high temperatures. The experiments were aimed at finding methods for qualitative analysis of the tendencies of alloys toward localized failure. Specifically sought was the reaction of the process of failure on the variation of the rate of deformation in a wide range and with temperatures ranging from 500-650°C. A description of the experimental methods, specimens and sizes, etc, is given. Plotted experimental data include: the variation of the strength limit and absolute elongation with various tensile strain and for various material and temperature combinations; variation of the strength limit of nonuniform specimens

Card 1/2

ACC NR: A16030945

exposed to different types of welding. Photographs of fractured specimens are shown. The authors note that at relatively high rates of deformation the entire section in the macroscale undergoes a failure. At low rates of deformation the failure of the specimen was more localized and was manifested as cracks propagating at low strength and plasticity. The effect of preheating is minor with higher rates of deformation, but is increasingly important with reduced rates of deformation. Various effects of the type of welding are discussed. Orig. art. has: 9 figures.

SUB CODE: 11, 13/ SUBM DATE: 11Mar66/ ORIG REF: 003/ OTH REF: 001

Card 2/2

ROZENKRANTZ S., Yu.F.

Neus/khin, S.M. and Rozenkrants, Yu.F. "Lightless roofing of spinning shops in artificial-fiber plants", Stroit. prom-st', 1949, No. 2, p. 22-23.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

ROZENKVIT, Sh. Ye.

Rozenkvit, Sh. Ye.

"Investigation of the design parameters of hydroplastic attachments."
Min Higher Education USSR. Kazan' Aviation Inst. Kazen', 1956.
(Dissertation for the Degree of Candidate in Technical Sciences).

Knizhnaya letopis'
No. 21, 1956. Moscow.

ROZENMALL, M., M.

Kratkiy Filosofskiy Slovar' (Short Philosophical Dictionary) Pod Red. M.
Rozennmala u P. Yudin. Izd. 4 Dopol I Isprav. Moskva, Gos. Izd-vo Politicheskoy
Lit., 1954.
703 p.

SO: N/5
912.101
.R8
1954

USOV, V.; ROZENMAN, A., red. angliyskogo teksta; KHODINOVA, V.,
tekhn. red.

[Yaroslavl; views of the city and its environs] I Aroslavl';
vidy goroda i okrestnosti. I Aroslavl', I Aroslavskoe knizh-
noe izd-vo, 1962. 1 v.
(MIRA 15:11)
(Yaroslavl--Views)

ROZENMÁN, A. S.

Trukhanov, A. A., Shershov, S. F., Rozenman, A. S. Kheyster, I. M., Gluzunov, A. A.,
and Gludinskiy, P. G. Participated in a discussion on the "Waste of Metal and
Decreasing the Power Losses in the Electrification System of the USSR"
Moscow Power Engineering Institute imeni Molotov (MEI),
SO: Elektrichestvo, No. 5, 1947; (W-27801, 14 Sept. 1953)

ROZENMAN, B.M., kand.med.nauk

Electrocardiographic observations of patients with typhoid fever
during treatment. Zdrav.Belor. 6 no.2:34-37 F '60. (MIRA 13:6)

1. Kafedra infektsionnykh bolezney (zaveduyushchiy - dotsent
N.V. Bondareva) Belorusskogo instituta usovershenstvovaniya
vrachey.

(TYPHOID FEVER) (ELECTROCARDIOGRAPHY)

LIVSHITS, B.Ya.; ROZENMAN, E.S.; KIBERNIK, K.V.; SOKOLOV, V.F.

Regulator of the feed of the ammonia sulfate pulp to the centrifuge.
(MIRA 18:8)
Koks i khim. no.7:55-56 '65.

1. Zaporozhskiy filial Instituta avtomatiki (for Livshits, Rozenman,
Kibernik). 2. Zaporozhskiy koksokhimicheskiy zavod (for Sokolov).

DROZDOV, R.Ya.; SOSEDOV, V.P.; ROZENMAN, I.M.

Changes in the linear dimensions of carbon materials in the
process of graphitization. TSvet.mat. 38 no.1:66-59 Ja '65
(MIRA 18:2)

CHALYKH, Ye.F.; ROZENMAN, I.M.

Kinetics of the oxidation of green pitch-coke specimens made
by cold pressing. TSvet. met. 37 no.6:44-47 Je '64.
(MIRA 17:9)

ROZENMAN, L.A.; BERESNEVA, Ye. I.

Result of comparative study of anti-diphtheria serums. Sovet. med.
16 no.3:18-22 Mar 1952. (CIML 22:1)

1. Candidate Medical Sciences for Rosenman. 2. Of the Infectious
Division (Head -- Doctor Medical Sciences M. Ye. Sukhareva) of the
Department of Pediatrics, Central Institute for the Advanced Training
of Physicians (Head of Department -- Prof. G. N. Speranskiy, Active
Member AMS USSR).

ROZENMAN L.A.

Antibiotics in the fight against diphtheria bacilli carriers (Russian text) PEDIATRIJA
1953, 6 (65-71) Tables 2
Pyocyanin, gramicidin, penicillin and sanasin were said to be the most effective.
Sanasin, a chemotherapeutic agent isolated from the blue pigment of *Ps. aeruginosa*
was used in dilution 1:250 for swabbing of the throat and in 1:1000 for inhalation.
Penicillin solution was applied with novocain in 9 ml. distilled water containing
50,000 U. of penicillin with addition of 1.0 ml. of 1% novocain. A total of 114
diphtheria carriers were treated topically with sanasin or penicillin or with both
antibiotics. As compared with untreated controls the treated group showed no
significant differences in the carrier stage. Anigstein - Galveston (XX, 4,6,7)

SO: Excerpta Medica

Section IV

Vol. 7 No. 12

SOV/2085

PHASE I BOOK EXPLOITATION

25(2.5) Tsentral'nyy Nauchno-Issledovatel'skiy Institut Tekhnologii i Mashinotroeychivaniya

Poishchiye Prochnosti Elementov Konstruktsiy I deley Moshinnoy i Mashinotroeychivaniya (Increasing the Strength of Constructional and Machine Elements)

(Series: Itc: *Sbornik* Kn. 91) Moscow, Nauksgiz, 1959. 210 p. 5,500 copies printed.

Ed. (Title page): I. V. Kudryavtsev, Doctor of Technical Sciences; G. S. Blitskin, Engineer; Tech. Professor Ed. (Inside book): A. G. Slobodin, Ed. for Literature on Transport

Ed.: V. D. Bl'kikh; Manaung Ed. for Literature on Transport

Machine Building (Nashgiz); K. A. Ponomarev, Engineer. Machine Building (Nashgiz).

PURPOSE: This collection of articles is intended for designers, process engineers, and scientific research workers in the machine-building industry.

COVERAGE: The collection contains papers dealing with experimental work done recently by TAIITMASH. The experiments are concerned with the practical use of surface work hardening in industry. Industrial practices intended to increase the strength and service life of machine parts and constructional elements are discussed. Several articles are devoted to problems of increasing the fatigue strength of machine parts by work hardening. Industrial practices of NKhZ in Krasnokutsk in external burnishing of large machine parts are presented. Tools and fixtures used in surface work hardening are described. No personalities are mentioned. References follow each article.

Kudryavtsev, I. V., T. V. Naumova, and L. M. Romanova. Effect of Work Hardening on the Strength of Carbon Steels. 129

Changes in hardness, ductility, yield, ultimate stress, impact toughness, and fatigue limit of carbon steels due to work hardening are investigated. Results are presented in tables and diagrams.

Kudryavtsev, I. V., and T. V. Naumova—Effect of Large Plastic Deformations on the Strength Properties of Austenitic Steels. 159

The investigation described in this article was conducted in order to establish the effect of extensive strain hardening on the fatigue resistance of heat-resistant steels. In addition to fatigue tests, short-time tensile compression, impact, and hardness tests were taken. The tests were taken at room temperature (20°C). Treatment at elevated temperatures (500°C). The effect of heat treatment on strain-hardened steels and the simultaneous effect of strain hardening and artificial aging were investigated.

Aleksandrov, B. I. *Zondatye of Technical Sciences*.⁷ Pat. No. 174 Resistance of E1723 Pearlite Steel at High Temperatures

The method of invention and preparation of samples are described. The influence of temperature and external burning with rollers, the stress concentration, and the changes in microstructure due to cyclic loading are studied.

Gulyayev, A. B., Doctor of Technical Sciences, Professor, and V. S. Ovtchinnikova, Engineer. Microscopic Investigation of Plastic Deformation

This article describes an experimental investigation of plastic deformation with the use of the optical microscope. A titanium model of the microstructure was then studied in an electron microscope. Plastic flow, changes in grain shape, and generation of cracks are discussed.

IV. MODERN STRENGTH-TESTING EQUIPMENT

Yuskevich, S. I. *Zondatye of Technical Sciences*,⁷ and N. Ye. Naumchenko, Engineer. Model U-200 Machine for Fatigue Testing Shells with up to 200-millimeter Diameters

This machine, designed and built by TAIITMASH, requires only 16 kw. for fatigue testing 200-millimeter shells.

It employs the principle of resonance for loading. Other design considerations and operating techniques are discussed.

ROZENMAN, L. M.

129-3-1/14

AUTHORS: Kudryavtsev, I. V., Doctor of Technical Sciences, Prof.,
Naumova, T. V., Eng. and Rozenman, L. M. Tekhn.

TITLE: Influence of work hardening on the mechanical properties
of carbon steels. (Vliyaniye naklepa na mekhanicheskiye
svoystva uglerodistykh stalej).

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, No.3, pp.2-6
(USSR).

ABSTRACT: The authors considered it of interest to study the influence of work hardening on the strength characteristics of steel, namely, hardness, impact strength, fatigue limit as well as the behaviour during static tension. The investigations were effected on the most widely used structural materials, namely, hot rolled carbon steel "45" and steel "3". For obtaining large degrees of work hardening, the method of torsion was selected, using cylindrical specimens of 19 and 22 mm dia. The maximum deformations were so chosen that there should be no cracks at the surface of the specimen, i.e. the relative elongation of the external fibres, ϵ , equalled 120 and 65% respectively. The results of the influence of the degree of deformation on the hardness are graphed in Fig.1, p.3. The influence of annealing for one hour at

Card 1/3

129-3-1/14

Influence of work hardening on the mechanical properties of carbon steels.

300, 600 and 800°C after maximum deformation on the hardness is graphed in Fig.2; Fig.3 gives the influence of the degree of deformation on the mechanical properties of the steel, whilst Fig.4 gives the influence of the testing temperature on the impact strength for degrees of freedom of 0, 20, 65, 80 and 120%. Fig.5 gives the change of the impact strength of steel as a function of the tempering temperature after work hardening with a maximum degree of deformation. It is concluded that large plastic deformations, which are equivalent to elongation in tension of 65 and 120%, bring about an appreciable increase in the hardness, yield point and ultimate strength of carbon steels. Simultaneously, the values of the relative elongation and contraction decrease. However, the decrease of the relative contraction of the cross section is only a slight one. Plastic deformation reduces the impact strength of both the tested steels for all the investigated temperatures (up to 600°C). The fatigue strength of the investigated steels, determined on smooth specimens, increases with increasing degree of work hardening; no increase in the fatigue strength was observed in the case of notched specimens.

Card 2/3

129-3-1/14

Influence of work hardening on the mechanical properties of carbon steels.

Annealing of the steel at 300°C after the work hardening leads to a further increase in the hardness of the metal and to a decrease of the impact strength, whilst annealing at 600°C causes a reduction in these values. Annealing of work hardened steel at 800°C eliminates completely the changes in the mechanical properties caused by plastic deformations.

There are five figures and one table.

ASSOCIATION: TsNIITMASH.

AVAILABLE: Library of Congress.

Card 3/3

KUDRYAVTSEV, I.V., doktor tekhnicheskikh nauk, professor; ROZENMAN, L.M.,
inzhener.

Removal of residual stresses during axial loading of surface-peened
cores. Metalloved.i obr.met. no.7:7-13 J1 '57. (MLRA 10:8)

1.TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i
mashinosstroyeniya.
(Metals--Testing)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620013-5

AGENCIAS, D. A.
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APPROVED FOR RELEASE: 07/13/2001

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1. Of the Infectious Division of the Department of Pediatrics (Head of Department -- Prof. G. N. Speranskiy, Active Member AMS USSR; Head of Division -- Doctor Medical Sciences M. Ye. Sukhareva) of the Central Institute for the Advanced Training of Physicians and the Laboratory (Head -- Doctor Medical Sciences Ye. A. Koet) of Clinical Order of Lenin Hospital imeni S. P. Botkin.